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AMATEUR ELECTRONIC SUPPLY

## HAM RADIO CATALOG

## SPRING/SUMMER 2006

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# Where to next?

## IC-756PROIII

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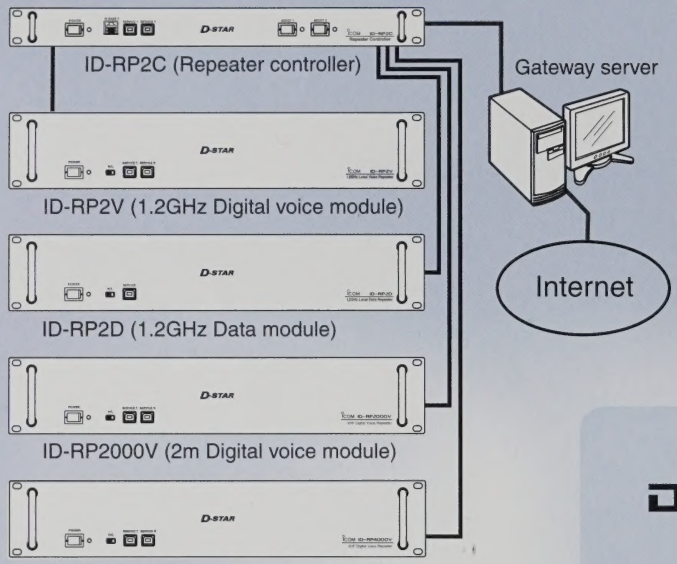
## D-STAR REPEATER SYSTEM




Up to 4 modules can be connected to 1 ID-RP2C

### CONNECT TO THE INTERNET

A D-STAR Digital Voice network creates a propagation-independent worldwide amateur radio network with D-STAR digital voice repeaters via the Internet.

DIGITAL

## D-STAR: JOIN THE DIGITAL REVOLUTION!

D-STAR connections are completely transparent to your laptop or other network device. Why run cables for a temporary or portable installation when mobile rigs will do the job? Connect across miles instead of meters! Icom offers a variety of digital and digital upgradeable radios. Available now at AES.

### ID-1

**GO DIGITAL ON 1.2GHz!**

10 Watt | High Speed Digital Data, Digital Voice, Analog Voice (FM) | Wireless Internet/Network Capable | PC Control via USB port | Digital Callsign & Digital Code Squelch

### ID-800

**GO DIGITAL ON 2m & 70cm!**

55 Watt VHF/50 Watt UHF | Wide RX: 118-173, 230-549, 810-999 MHz (Cellular Blocked) | Analog/Digital Voice & Data | Callsign Squelch | CTCSS & DTCS Encode/Decode w/Tone Scan

### IC-2200H

**DIGITAL UPGRADEABLE FOR 2m!**

65 Watt | 207 Alphanumeric Memories | Digital Voice & Data w/Optional UT-118 | Optional Callsign Squelch | CTCSS & DTCS Encode/Decode w/Tone Scan | Weather Alert

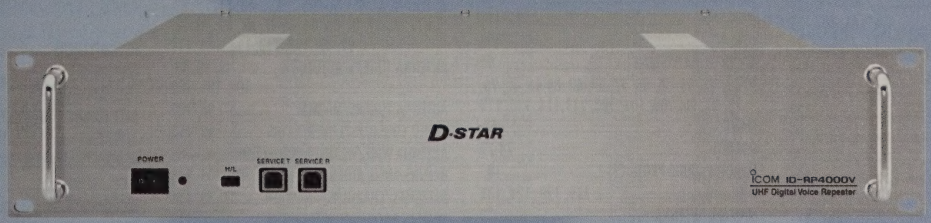
# 2m and 70cm digital voice meet Main Street, U.S.A.!

**ID-RP2000V**
**ID-RP4000V**

Meet the future of amateur radio, today. D-STAR repeater systems are coming to more locations around the country. Jump in on the exciting new digital direction ham radio's taking!

## D-PRS®

The low-speed data port found in Icom D-STAR handheld radios is compatible with a GPS NMEA data interface. With GPS data integrated into the D-STAR digital data stream, your location data is forwarded to the D-PRS server where gateway software connects you to the APRS® reporting system. The interface is built-in to D-STAR radios – no separate TNC and transceiver required!




## DIGITAL SIGNALS = PIN-DROP CLARITY

Since D-STAR is fully digital at the terminal-to-terminal level, the network provides noise-free stable communications as if all of the D-STAR terminals are located in the same area, regardless of real geographical separation!

## INTEROPERABILITY, CROSS BAND OPERATION

D-STAR digital voice radios can communicate even when they are on different bands. For example, a 2m DV radio can talk to a 70cm or 1.2GHz DV radio via repeater(s). Make D-STAR your new emergency communications standard.

## THE FUTURE IS GLOBAL

Take your 2m/70cm nationwide... even worldwide! Icom D-STAR capable handhelds and mobiles, like the IC-U82 and IC-2200H shown below, now allow your local or regional communicatons to go global when used with these new D-STAR repeaters. It's a whole new ball game!

## IC-V82 & IC-U82

**DIGITAL UPGRADEABLE FOR 2m OR 70cm!**

7 Watt VHF or 5 Watt UHF | 200 Alphanumeric Memories | Digital Voice & Data w/Optional UT-118 | Optional Callsign Squelch | CTCSS & DTCS Encode/Decode w/Tone Scan | Weather Alert

ICOM®

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*Note: Charges for truck shipments from 1-99 lbs are running a minimum of $80.00, plus local destination charges. It is advisable to contact a local freight office for a quotation.*

(D) **DISCONTINUED** by Manufacturer but available from stock in limited quantities when price guide was published.

(†) **TEMPORARY LOW PRICE** due to special purchase, over stock, etc. Quantities may be limited at this price.

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## ADI (ADI)

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|---|---|---|
| **AR-447** | 35w 440 MHz FM Xcvr w/TTP mic .Δ | $199.99 |
| **MTG BKT** | Extra mobile bracket .....Δ | 8.99 |
| **PROG-47** | PC prog soft/cbl AR-147/247/447 Δ | 19.99 |
| **PWR CORD** | Extra DC cable .....Δ | 8.99 |
| **PTC-001** | Mobile power pack; PR-series .....D | 6.99 |
| **SD-911** | Rapid charger for AT-201HP .....Δ | 44.99 |
| **SLC-22L** | Leather case; PR-series .....D | 4.99 |

## AES (AES)

| | | |
|---|---|---|
| **SP-N** | 1.6kw 2.5GHz type N surge protector ... | $ 39.99 |
| **SP-U** | 1.6kw 600MHz UHF surge protector ..... | 39.99 |
| **AP** | Replacement arc-plug for SP-N/SP-U ... | 9.99 |

## AIM (AIM)

| | | |
|---|---|---|
| **24-7735P** | Coax stripper; RG-58/59/62 ..... | $ 23.99 |
| **24-7736P** | Coax stripper; RG-59/6/8281 ..... | 22.99 |
| **24-7739P** | Coax stripper; RG-8/11/213 ..... | 33.99 |
| **38-305** | 500ma 3/4.5/6/7.5/9/12vdc adapter | 11.99 |
| **38-384** | 4A power supply, 5A surge ..... | 49.99 |

## AOR (AOR)

| | | |
|---|---|---|
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| **AR-5000A+3B** | 10kHz-3GHz Rcvr/cell blkd spec order | 2599.99 |
| **AR-5000A+3U*** | Rcvr/restricted sales! spec order | 2599.99 |
| **AR-5000AC*** | Rcvr/restricted sales! special order | 2749.99 |
| **AR-3000AB** | .1-2036MHz dlx w/SSB/cell blkd D | 1099.99 |
| **AR-3000AU*** | Rcvr/restricted sales! special order | 1099.99 |
| **SDU-5500** | Spectrum disp unit/PC interfc D | 899.99 |
| **SDU-5600** | Spectrum disp unit/PC interface | 1299.99 |
| **AR-8600 Mk II-B** | .53M-2.04G base Rcvr/cell blkd | 899.99 |
| **AR-8600 Mk II-U*** | Rcvr/restricted sales! spec order | 899.99 |
| **SDU-5500** | Spectrum disp unit/PC interfc D | 899.99 |
| **SDU-5600** | Spectrum disp unit/PC interface | 1299.99 |
| **AR-8200 Mk III-B** | .5M-3G hand/SSB/cell blkd | 569.99 |
| **AR-8200 Mk III-U*** | Rcvr/restricted sales! spec order | 579.99 |
| **LC-8200** | Leather case ..... | 24.99 |
| **SC-8200P** | Soft case ..... | 13.99 |
| **LA-350** | 3-30MHz indoor active loop rcv ant D | 339.99 |
| **350M** | .54-1.6MHz antenna element .....D | 69.99 |
| **ARD-9000** | Digital SSB interface ..... | 339.99 |
| **ARD-9800** | Digital SSB/SSTV interface ..... | 549.99 |

## AOR - continued

| | | AES Price |
|---|---|---|
| **LA-380** | .01-500MHz indoor active loop rcv ant | 379.99 |
| **TDF-370** | Multi-media terminal/DSP .....D | 299.99 |

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## ARRL (ARR)

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| **IHF-12** | 12m 7' mobile antenna .....D | 8.99 |
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| **IHF-17** | 17m 7' mobile antenna .....D | 8.99 |
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| **IHFM-12** | 12m 36" mini mobile antenna .....D | 7.99 |
| **IHFM-15** | 15m 39" mini mobile antenna .....D | 8.99 |
| **IHFM-30** | 30m 40" mini mobile antenna .....D | 8.99 |
| **IHFM-80** | 80m 76" mini mobile antenna .....D | 12.99 |
| **IHMM-144** | 2m 25w ¼ wave mag mt ant/BNC D | 7.99 |
| **IHMM-220** | 220 25w ¼ wave mag mt ant/BNC D | 6.99 |
| **IHMM-440** | 440 25w ¼ wave mag mt ant/BNC D | 9.99 |
| **IHSB-4** | Triangular stake bed mt/HD rt ang SO-239¾-24 D | 14.99 |

## Alan Broadband (ALA)

| | | |
|---|---|---|
| **Zap Checker**/180 | Transmitter/bug detector .. | $ 89.99 |
| **185** | Dlx analog/dig transmitter/bug detector | 159.99 |

## ALINCO (ALI)

| | | |
|---|---|---|
| **DJ-C7T** | 300mw cc size 2m/440 HT/lith ion/spkr | $169.99 |
| **EBP-58N** | Extra lithion ion battery ..... | 37.99 |
| **EDH-32** | Cigarette lighter cable ..... | 19.99 |
| **EME-18** | Earphone ..... | 13.99 |
| **EME-24** | Earphone/mic ..... | 39.99 |
| **EME-25** | Curl cord earphone ..... | 14.99 |
| **EMS-60** | Speaker/mic ..... | 41.99 |
| **ERW-4C** | PC cable ..... | 39.99 |
| **ESC-38** | Soft case ..... | 14.99 |
| **EDC-55** | Drop-in cgr; EBP30/31/32N; G1T ...Δ | .29 |
| **EMS-50** | Speaker/mic; DJ-C5T .....Δ | 29.99 |
| **DJ-196T** | 5w 2m FM HT/batt/cgr/TTP ..... | 119.99 |
| **DJ-296T** | 5w 220 FM HT/batt/cgr/TTP ..... | 149.99 |
| **DJ-496T** | 5w 440 FM HT/batt/cgr/TTP ..... | 149.99 |
| **DJ-596T MK II** | 5w 2m/440 HT/NiMH/cgr/TTP | 209.99 |
| **EBC-6** | Mobile bracket .....D | 15.99 |
| **EBP-50N** | 9.6v 700mah 5w NiMH battery ... | 23.99 |
| **EBP-51N** | 9.6v 1500mah 5w NiMH battery . | 37.99 |
| **EBP-56N** | 7.4v 1000mah lithion ion battery | 49.99 |
| **EDC-111** | Charger for EBP-56N ..... | 45.99 |
| **EDC-16B** | Cigarette lighter cable w/filter .... | 21.99 |
| **EDC-36** | Angle plug power cable w/filter .... | 24.99 |
| **EDC-37** | 13.8v power cable ..... | 7.99 |
| **EDC-43** | Cig lighter cable ..... | 10.99 |
| **EDC-88** | Quick charger; nicad battery packs | 59.99 |
| **EDC-93** | Extra wall charger ..... | 10.99 |
| **EDC-97** | Quick charger; MiMH battery packs | 70.99 |

## Alinco - continued

| | AES Price |
|---|---|
| **EDH-30** Dry cell battery case | 15.99 |
| **EJ-43U** Digital board; original DJ-596T only Δ | 69.99 |
| **EJ-47U** Digital board; Mk II versions | 179.99 |
| **EME-6** Earphone | 10.99 |
| **EME-12** Headset w/earphone/mic/VOX | 69.99 |
| **EME-13** Headset w/ear bud/mic/VOX | 59.99 |
| **EME-15** Earphone/mic w/VOX | 49.99 |
| **EME-20** Tie-pin mic & earphone | 22.99 |
| **EMS-47** Spkr/mic w/volume control | 24.99 |
| **ERW-4C** PC cable | 39.99 |
| **ESC-36** Soft case for EBP-48N | 13.99 |
| **SW-596** Windows prog software; DJ-596T | 31.99 |
| **DJ-V5TH** 5w 2m/440 FM HT/batt/cgr/TTP | 209.99 |
| **EBP-46N** 9.6v 600mah 5w nicad battery | 64.99 |
| **EDC-16B** Cigarette lighter cable w/filter | 21.99 |
| **EDC-36** Angle plug power cable w/filter | 24.99 |
| **EDC-37** 13.8v power cable | 7.99 |
| **EDC-43** Cig lighter cable | 10.99 |
| **EDC-91** Quick charger | 59.99 |
| **EDH-29** Dry cell case for 4-AA's | 12.99 |
| **EME-6** Earphone | 10.99 |
| **EME-12** Headset w/earphone/mic/VOX | 69.99 |
| **EME-13** Headset w/ear bud/mic/VOX | 59.99 |
| **EME-15** Earphone/mic w/VOX | 49.99 |
| **EME-20** Tie-pin mic & earphone | 22.99 |
| **EMS-8Z** Remote speaker/mic D | 49.99 |
| **EMS-47** Spkr/mic w/volume control | 24.99 |
| **ESC-35** Soft case for EBP-45N/46N | 13.99 |
| **DJ-S11T** 340mw 2m FM HT/battery holder | 79.99 |
| **EBC-6** Mobile bracket D | 15.99 |
| **EDC-78** Wall charger; (not for alkalines) | 7.99 |
| **EDH-18** 12v to 5.5v DC/DC conv/cig plug | 29.99 |
| **EME-6** Earphone | 10.99 |
| **EME-12** Headset w/earphone/mic/VOX | 69.99 |
| **EME-13** Headset w/ear bud/mic/VOX | 59.99 |
| **EME-15** Earphone/mic w/VOX | 49.99 |
| **EME-20** Tie-pin mic & earphone | 22.99 |
| **EMS-47** Spkr/mic w/volume control | 24.99 |
| **ESC-27** Soft case | 16.99 |
| **DJ-S40T** 500mw 440 FM HT/battery holder | 89.99 |
| **EBC-6** Mobile bracket D | 15.99 |
| **EBP-52N** 3.6v 500mah NiMH battery | 37.99 |
| **EBP-53N** 6v 500mah NiMH battery | 45.99 |
| **EBP-54N** 3.6v 1500mah NiMH battery | 49.99 |
| **EDC-37** 13.8v power cable | 7.99 |
| **EDC-43** Cig lighter cable | 10.99 |
| **EDC-105** Drop-in NiMH battery cgr, less ps | 24.99 |
| **EDC-93** Wall ps for EDC-105 | 10.99 |
| **EDH-31** Dry cell battery case | 12.99 |
| **EME-6** Earphone | 10.99 |
| **EME-12** Headset w/earphone/mic/VOX | 69.99 |
| **EME-13** Headset w/ear bud/mic/VOX | 59.99 |
| **EME-15** Earphone/mic w/VOX | 49.99 |
| **EME-20** Tie-pin mic & earphone | 22.99 |
| **EMS-8Z** Remote speaker/mic D | 49.99 |
| **EMS-47** Spkr/mic w/volume control | 24.99 |
| **ESC-37** Soft case | 13.99 |
| **DJ-S45T** 1w 440 FM HT w/lith ion battery | 119.99 |
| **ERW-4C** PC cable | 39.99 |
| **EDH-27** Dry cell case w/charger; DJ-X2T Δ | 6.99 |
| **EDH-28** DC/DC converter w/cig plug; DJ-X2T D | 6.99 |
| **DJ-X3T** .1MHz-1.3GHz AM/FM hand Rcvr/cell blkd | 159.99 |
| **EBP-52S** 3.6v 500mah NiMH battery | 37.99 |
| **EDC-105** Drop-in NiMH battery cgr, less ps | 24.99 |
| **EDC-93** Wall ps for EDC-105 | 10.99 |
| **EDH-31S** Dry cell battery case | 12.99 |
| **ERW-4C** PC cable | 39.99 |
| **ESC-37** Soft case | 13.99 |
| **DJ-X7T** .1MHz-1.3GHz AM/FM hand Rcvr/cell blkd | 169.99 |
| **EBP-58N** Extra lithion ion battery | 37.99 |
| **EDH-32** Cigarette lighter cable | 19.99 |

## Alinco - continued

| | AES Price |
|---|---|
| **EME-18** Earphone | 13.99 |
| **EME-25** Curl cord earphone | 14.99 |
| **ERW-4C** PC cable | 39.99 |
| **ESC-38** Soft case | 14.99 |
| **DJ-X2000T** .1-2149MHz receiver/cell blocked | 499.99 |
| **EBP-34N** 4.8v 1200mah nicad battery D | 79.99 |
| **EBP-37N** 4.8v 700mah nicad battery | 34.99 |
| **EDC-16B** Cigarette lighter cable w/filter | 21.99 |
| **EDC-36** Angle plug power cable w/filter | 24.99 |
| **EDC-37** 13.8v power cable | 7.99 |
| **EDC-43** Cig lighter cable | 10.99 |
| **EDC-88** Quick charger; nicad battery packs | 59.99 |
| **EDH-16** Dry cell battery case | 12.99 |
| **EME-6** Earphone | 10.99 |
| **ERW-4C** PC cable | 39.99 |
| **ESC-28** Soft case for EBP-33N D | 9.99 |
| **ESC-29** Soft case for EBP-37N | 13.99 |
| **ESC-30** Soft case for EBP-34N D | 9.99 |
| **DR-M06TH** 20w 6m FM Xcvr/TTP/encoder | 259.99 |
| **MB-130** Extra mobile bracket | 19.99 |
| **HK-130** Hardware kit for MB-130 | 4.99 |
| **PC-15B** Extra DC cable | 10.99 |
| **DR-135T Mk II** Blk 50w 2m FM Xcvr/TTP mic | 169.99 |
| **DR-235T** Black 25w 220 FM Xcvr w/TTP mic | 249.99 |
| **DR-435T Mk II** Blk 35w 440 FM Xcvr/TTP mic | 269.99 |
| **EDC-37** 13.8v power cable; ignition on/off | 7.99 |
| **EDC-43** Cig lighter cable; ignition on/off | 10.99 |
| **EJ-41U** 1200/9600 TNC unit | 129.99 |
| **EJ-47U** Digital board; Mk II versions | 179.99 |
| **ERW-4C** PC cable | 39.99 |
| **MB-130** Extra mobile bracket | 19.99 |
| **HK-130** Hardware kit for MB-130 | 4.99 |
| **PC-15B** Extra DC cable | 10.99 |
| **SW-620** Windows programming software | 31.99 |
| **DR-135TP Mk II** Blk 50w 2m FM/TT/1200/9600 TNC | 269.99 |
| **EDC-37** 13.8v power cable; ignition on/off | 7.99 |
| **EDC-43** Cig lighter cable; ignition on/off | 10.99 |
| **EJ-47U** Digital board; Mk II versions | 179.99 |
| **ERW-4C** PC cable | 39.99 |
| **MB-130** Extra mobile bracket | 19.99 |
| **HK-130** Hardware kit for MB-130 | 4.99 |
| **PC-15B** Extra DC cable | 10.99 |
| **SW-620** Windows programming software | 31.99 |
| **DR-605TQ** 50/35w 2m/440 FM//EJ24U tone sq D | 339.99 |
| **EMS-14** Desk top microphone | 114.99 |
| **EDS-8** Adapter; EMS-14 w/DR-605TQ Δ | 19.99 |
| **MB-130** Extra mobile bracket | 19.99 |
| **HK-130** Hardware kit for MB-130 | 4.99 |
| **PC-15B** Extra DC cable | 10.99 |
| **DR-620T** 50/35w 2m/440 FM Xcvr/TTP | 339.99 |
| **DR-635T** 50/35w 2m/440 FM Xcvr | 369.99 |
| **EDS-9** Separation kit | 45.99 |
| **EJ-47U** Digital board for DR-620T | 179.99 |
| **EJ-50U** TNC unit for DR-620T | 129.99 |
| **ERW-4C** PC cable | 39.99 |
| **MB-130** Extra mobile bracket | 19.99 |
| **HK-130** Hardware kit for MB-130 | 4.99 |
| **PC-15B** Extra DC cable | 10.99 |
| **SW-620** Windows programming software | 31.99 |
| **DX-70TH** Comp HF Xcvr/100w 6m/mob bkt | 749.99 |
| **DM-330MVT** 30A switching ps/meter/32A surge | 179.99 |
| **EBC-8** Front control head bracket | 15.99 |
| **EBC-9** Extra mobile bracket | 32.99 |
| **EDS-5** 5' microphone extension cable | 36.99 |
| **EDS-6** 15' remote cable | 68.99 |
| **EDX-2** 160-10m 200w wire auto tuner | 319.99 |
| **EMS-14** Desk top microphone | 114.99 |
| **PC-25** Extra DC cable | 35.99 |
| **DX-77T** 160-10m HF Xcvr | 699.99 |
| **DM-330MVT** 30A switching ps/meter/32A surge | 179.99 |
| **EDS-5** 5' microphone extension cable | 36.99 |

## Alinco - continued

| | AES Price |
|---|---|
| **EDX-2** 160-10m 200w wire auto tuner | 319.99 |
| **EMS-14** Desk top microphone | 114.99 |
| **PC-25** Extra DC cable | 35.99 |

## ALPHA DELTA (ALP)

| | |
|---|---|
| **ATT-3G50** 200w 3GHz type N surge protector | $ 59.99 |
| **ATT-3G50-HP** 2kw 3GHz type N surge protector | 59.99 |
| **ATT-3G50U** 200w 500MHz UHF surge protector | 49.99 |
| **ATT-3G50U-HP** 2kw 500MHz UHF surge protector | 49.99 |
| **ATT**/3G50 Extra 200w arc-plug cartridge | 14.99 |
| **ATT-HP**/3G50HP Extra 2kw arc-plug cart | 14.99 |
| **Delta-2** 500 MHz 2-pos coax switch/protector | 49.99 |
| **Delta-2/N** 1.3 GHz 2-pos type N switch/protector | 64.99 |
| **Delta-4** 500 MHz 4-pos coax switch/protector | 79.99 |
| **Delta-4/N** 1.3 GHz 4-pos type N switch/protector | 89.99 |
| **D-4** Extra arc-plug; Delta-2/2N/4/4N | 9.99 |
| **Delta-C** Kit w/ctr ins/2 end ins/static protect | 29.99 |
| **SEP** Extra arc-plug cart; DX-Ultra/Delta-C | 15.99 |
| **Delta-CIN** Antenna end insulator ....each | 1.99 |
| **DX-80** 80m 134' complete dipole antenna | 58.99 |
| **DX-40** 40m 67' complete dipole antenna | 48.99 |
| **DX-40/20** 40/20m 40' low profile dipole antenna | 89.99 |
| **DX-20** 20m 34' complete dipole antenna | 48.99 |
| **DX-A** 160-80-40m twin sloper antenna | 70.99 |
| **DX-B** 160-80-40-30m 60' sloper ant | 80.99 |
| **DX-CC** 80-10m 5-band 82' no trap, no tuner dipole | 130.99 |
| **DX-DD** 80/40m 82' Delta Dipole antenna | 100.99 |
| **DX-EE** 40-10m 4-band 40' no trap, no tuner dipole | 110.99 |
| **DX-LB** 160-80-40m 100' shortened dipole | 130.99 |
| **DX-LB Plus** 160/80/40/20/15/10m 100' short dip | 160.99 |
| **DX-SWL** AM broadcast-13m 60' SWL sloper ant | 90.99 |
| **DX-Ultra** AM broadcast-30MHz 80' SWL dipole | 130.99 |
| **SEP** Extra arc-plug cart; DX-Ultra/Delta-C | 15.99 |
| **Pathfinder** 1.8-30Mhz+6m dig auto ant tuner Δ | 199.99 |
| **Basic Technology** Amateur Radio video & book Δ | 9.99 |

## AMECO (AME)

### CODE COURSES - CASSETTE TAPES

| | |
|---|---|
| **100-T** Junior code tape, 0-7½ wpm | $ 5.95 |

### CODE PRACTICE OSCILLATORS & CODE KEYS

| | |
|---|---|
| **K-1** Bakelite type key | $ 10.95 |
| **K-4R** Brass type key | 17.95 |
| **OCM-2K** Code oscillator & CW monitor kit | 19.99 |
| **OCM-2W** Wired oscillator & CW monitor | 29.99 |

### PREAMPLIFIERS

| | |
|---|---|
| **TPA** HF receive preamp & indoor active ant | $ 79.99 |
| **P-9T** Power supply for TPA | 9.99 |
| **PT-3** 2-54 MHz transceiver preamp | 139.99 |
| **P-12T** Power supply for PT-3 | 9.99 |

### FILTERS

| | |
|---|---|
| **HP-75T** 75 ohm high-pass filter | $ 14.99 |
| **HP-300T** 300 ohm high-pass filter | 14.99 |

## AMERITRON (AMR)

| | |
|---|---|
| **AL-80B** 1kw PEP out linear amp (3-500Z) | 1299.99 |
| **AL-82** 1.5kw PEP out linear amp (2 3-500Zs) | 2299.99 |
| **AL-572** 1.3kw PEP out linear amp (4 572Bs) | 1349.99 |
| **AL-800** 1250w PEP out linear (3CX800A7) | 1699.99 |
| **AL-800H** 1.5kw PEP out amp (2 3CX800A7) | 2499.99 |
| **AL-811** 600w PEP out linear amp (3 811As) | 619.99 |
| **AL-811H** 800w PEP out linear amp (4 811As) | 749.99 |
| **AL-1200** 1.5kw PEP out linear (3CX-1200A7) | 2299.99 |
| **AL-1500** 1.5kw out linear amplifier (8877) | 2649.99 |
| **ALS-500M** 500w PEP out solid state mob amp | 749.99 |
| **ALS-500RC** Remote head; sn 13049 & up | 49.99 |
| **ALS-600** 600w PEP out solid state amp w/ps | 1129.99 |
| **ALS-600S** 600w PEP out solid state amp/switching ps | 1249.99 |
| **ARB-704** Amplifier Xcvr interface buffer | 49.99 |
| **PNP-5M** Plug & play cable; FT-847 | 15.99 |
| **PNP-7D** Plug & play cable; TS-570S/870S/2000 | 15.99 |
| **PNP-8D** Plug & play cable; FT-920/1000 series | 15.99 |


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## Ameritron - continued

| | AES Price |
|---|---|
| **PNP-8M** Plug & play cbl; FT-817/840/857/897 | 15.99 |
| **PNP-8MK** Plug & play cable; TS-480 | 15.99 |
| **PNP-13D** Plug & play cable; IC-706 series | 15.99 |
| **PNP-35** Plug & play cable; FT-100 series | 15.99 |
| **ARB-704I2** Amp Xcvr interface/cbl; IC-706 series | 49.99 |
| **ATP-100** Amplifier tuning pulser | 49.99 |
| **ATP-102** Deluxe amplifier tuning pulser | 59.99 |
| **ATR-20** 1.2kw PEP antenna tuner | 429.99 |
| **ATR-30** 3kw PEP antenna tuner | 559.99 |
| **ADL-1500** 1.5kw dummy load with oil | 69.99 |
| **ADL-2500** 2.5kw dummy load with fan | 189.99 |
| **ICP-120** 120v inrush protector | 79.99 |
| **ICP-240** 240v inrush protector | 79.99 |
| **AWM-30** 3kw PEP SWR/wattmeter/rem sens | 149.99 |
| **QSK-5** Stand alone T/R switch | 329.99 |
| **QSK-5PC** PC board kit; T/R switch | 249.99 |
| **CF-5** Cooling fan for QSK-5 | 39.99 |
| **RCS-4** 4-pos wireless remote coax switch | 129.99 |
| **RCS-8V** 160-2m 5-pos remote coax switch | 139.99 |
| **RCS-8VN** 160-2m 5-pos N rem coax switch | 149.99 |
| Note: RCS-8V/VN require 8-wire control cable. | |
| **RCS-10** DC-100MHz 8-pos remote coax switch | 159.99 |
| Note: RCS-10 requires 4-wire control cable. | |

## ANTENEX (ANX)

| | |
|---|---|
| **AB-FT** 118-896MHz ¼ wave NMO whip | $ 16.99 |
| **AB-SCANC** VHF/UHF/800MHz NMO mob scan ant | 29.99 |
| **BB-1442N** 144-174 2.4db no gnd plane NMO mob | 39.99 |
| **BB-1443** 144-174MHz 3db 49" NMO mobile | 39.99 |
| **BB-4303** 430-450 3db 11 13/16" NMO mobile | 34.99 |
| **CB-144/440C** 2m/440 2/5db 36" NMO mobile | 49.99 |
| **CWB-1443** Self-tuning 144-156 3db NMO mob | 49.99 |
| **CWB-4405C** Self-tuning 440-470 5db NMO mob | 49.99 |
| **FG-1440** 2m 92" fg unity gain N base ant | 119.99 |
| **FG-1443** 2m 107" fg 3db N base antenna | 199.99 |
| **FG-4403** 440-450 44" fg 3db N base ant | 149.99 |
| **FG-4405** 440-450 76" fg 5db N base ant | 199.99 |
| **FM-2** Heavy duty mg bkt pair for FG-series | 29.99 |
| **GB-8PSTI** NMO mag mt w/coax & teflon PL259 | 29.99 |
| **LBMB-9034** Mirror mt ¾" hole L-bracket | 10.99 |
| **MB-8PST** NMO hole mt w/coax & teflon PL259 | 15.99 |
| **TM8-PST** Chrome NMO mini trunk mt/coax/PL259 | 29.99 |
| **TRABT-1420** 142-164 Phantom whipless NMO | 59.99 |
| **TRAB-4303** 430-450 3db Phantom whipless NMO | 29.99 |
| **VTPM** NMO mt;up to 1" thick plate (UHF barrel) | 15.99 |
| **Y-1363** 136-150MHz 3el 7.1db gold N beam | 119.99 |
| **Y-1365** 136-150MHz 5el 9.2db gold N beam | 169.99 |
| **Y-4303** 430-450 3el 7.1db gold welded N beam | 99.99 |
| **Y-4305** 430-450 5el 9.2db gold welded N beam | 129.99 |

## Antenna Specialists (ASP)

| | |
|---|---|
| **APR143** 2m 23" on glass cell look-alike ant | $ 69.99 |
| **APS151** 2m 3db 33" on glass antenna | 69.99 |
| **KAV-353** On glass replacement mtg kit | 12.99 |

## Antenna Supermarket (ANT)

| | |
|---|---|
| **Eaves**dropper* 60-11m trap dipole SWL ant | $ 89.99 |
| *Specify **SO-239** or **twin**-lead | |

## ANTENNA WORLD (ANW)

| | |
|---|---|
| **COM136-4500NP** VHF/UHF port dipole/BNC | $ 19.99 |

## ARROW Antenna (ARA)

| | |
|---|---|
| **146/437-10** 3 el 2m/7 el 440 handheld beam | $ 73.00 |
| **146/437-10BP** 3el 2m/7el 440 HH split bm beam | 79.00 |
| **10w duplexer** (installs in boom) w/BNC | 59.00 |
| 10w **duplexer** (installs in boom) w/**SMA** | 64.00 |
| **OSJ-146/440** 2m/440 57.5" J-pole antenna | 39.99 |

## ARTSCI (ART)

| | |
|---|---|
| **Lost Users** Manuals | $ 19.95 |
| **Repeater Map**book 12th edition | 14.99 |

## ASTRON (ASR)

| | AES Price |
|---|---|
| **RS-4L** 3A ps, 4A surge, w/cig lighter socket | $ 49.99 |
| **RS-7A** 5A power supply, 7A surge | 59.99 |
| **RS-10A** 7.5A power supply, 10A surge | 69.99 |
| **RS-12A** 9A power supply, 12A surge | 79.99 |
| **RS-12S** 9A ps, 12A surge, w/speaker | 89.99 |
| **RS-20A** 16A power supply, 20A surge | 99.99 |
| **RS-35A** 25A power supply, 35A surge | 149.99 |
| **RS-35A/220V** 220v 25A ps, 35A surge | 179.99 |
| **RS-50A** 37A power supply, 50A surge | 219.99 |
| **RS-70A** 57A power supply, 70A surge | 279.99 |
| **RS-20M** 16A ps w/meters, 20A surge | 119.99 |
| **RS-35M** 25A ps w/meters, 35A surge | 169.99 |
| **RS-50M** 37A ps w/meters, 50A surge | 239.99 |
| **RS-70M** 57A ps w/meters, 70A surge | 299.99 |
| **VS-20ML** Variable 16A ps/meters, 20A surge | 139.99 |
| **VS-35M** Variable 25A ps/meters, 35A surge | 199.99 |
| **VS-50M** Variable 37A ps/meters, 50A surge | 259.99 |
| **RM-35M** 25A rack mt ps/meters, 35A surge | 259.99 |
| **RM-50M** 37A rack mt ps/meters, 50A surge | 299.99 |
| **RM-60M** 50A rack mt ps/meters, 55A surge | 389.99 |
| **SS-25** 20A switching ps, 25A surge | 119.99 |
| **SS-25M** 20A switching ps/meters, 25A surge | 139.99 |
| **SS-30** 25A switching ps, 30A surge | 129.99 |
| **SS-30M** 25A switching ps/meters, 30A surge | 149.99 |
| **12/115** 200w 12vdc-115vac inverter Δ | 24.99 |
| **N2412-12** 10A 22-32vdc to 13.8vdc converter | 59.99 |
| **N2412-24** 20A 22-32vdc to 13.8vdc converter | 89.99 |

## BMI (BMI)

| | |
|---|---|
| **972AD** 14" 12/24-hour wall clock | $ 32.99 |
| **973A** 12" 24-hour wall clock | 49.99 |

## B & W (B&W)

| | |
|---|---|
| **AC-1.8-30** Continuous 1.8-30 MHz vee ant | $229.99 |
| **ACS-5-30** 5-30 Mhz stainless 65' folded dipole D | 219.99 |
| **AP-10A** 51" portable 40/20/15/10/6/2m ant D | 79.99 |
| **AP-10B** 51" portable 40/20/15/10/6/2m ant | 89.99 |
| **AT-55** 40/20/15/10m 55' trap dipole ant D | 79.99 |
| **BWD-20** 14-30 MHz 20' folded dipole | 219.99 |
| **BWD-45** 7-30 MHz 45' folded dipole | 219.99 |
| **BWD-65** 4-30 MHz 65' folded dipole | 229.99 |
| **BWD-90** 1.8-30 MHz 90' folded dipole | 229.99 |
| **FDMK** Mtg kit; folded dipole w/3 pole installation | 45.99 |

## BELDEN (BEL)

### 52 OHM COAXIAL CABLE

| | | | AES Price |
|---|---|---|---|
| **8216** | RG-174 (sub-miniature) | per ft. | $ .35 |
| **8216** | | **100** ft. Roll | 33.99 |
| **8216** | | **500** ft. Roll | 119.99 |
| **8216** | | **1000** ft. Roll | 224.99 |
| **8240** | RG-58U (solid center) | per ft. | .36 |
| **8240** | | **100** ft. Roll | 34.99 |
| **8240** | | **500** ft. Roll | 129.99 |
| **8240** | | **1000** ft. Roll | 239.99 |
| **8259** | RG-58AU (stranded center) | per ft. | .40 |
| **8259** | | **100** ft. Roll | 38.99 |
| **8259** | | **500** ft. Roll | 129.99 |
| **8259** | | **1000** ft. Roll | 239.99 |
| **8219** | RG-58AU (stranded, foam) | per ft. | .37 |
| **8219** | | **100** ft. cut | 35.99 |
| **8219** | | **500** ft. Roll | 134.99 |
| **8219** | | **1000** ft. Roll | 249.99 |
| **8262** | RG-58CU (non-contaminating) | per ft. | .44 |
| **8262** | | **100** ft. cut | 41.99 |
| **8262** | | **500** ft. Roll | 172.99 |
| **8262** | | **1000** ft. Roll | 314.99 |
| **9258** | RG-8X (stranded, foam) | per ft. | .47 |
| **9258** | | **100** ft. cut | 42.99 |

## Belden - continued

| | | | AES Price |
|---|---|---|---|
| **9258** | | **500** ft. Roll | 164.99 |
| **9258** | | **1000** ft. Roll | 299.99 |
| **8237** | RG-8U | per ft. | .79 |
| **8237** | | **100** ft. Roll | 74.99 |
| **8237** | | **500** ft. Roll | 299.99 |
| **8214** | RG-8U (foam) | per ft. | .74 |
| **8214** | | **100** ft. Roll | 69.99 |
| **8214** | | **500** ft. Roll | 334.99 |
| **8214** | | **1000** ft. Roll | 629.99 |
| **9913** | RG-8U (low loss) | **100** ft. Roll | 74.99 |
| **9913** | | **250** ft. Roll | 164.99 |
| **9913** | | **500** ft. Roll | 299.99 |
| **9913F7** | RG-8U (low loss, flexible) | per ft. | .99 |
| **9913F7** | | **100** ft. Roll | 94.99 |
| **9913F7** | | **250** ft. Roll | 194.99 |
| **9913F7** | | **500** ft. Roll | 349.99 |
| **8267** | RG-213 (non-contaminating) | per ft. | 1.04 |
| **8267** | | **100** ft. cut | 99.99 |
| **8267** | | **500** ft. Roll | 449.99 |

### 75 OHM COAXIAL CABLE

| | | | |
|---|---|---|---|
| **8241** | RG-59U (73 ohm, solid center) | per ft. | $ .40 |
| **8241** | | **100** ft. Roll | 37.99 |
| **8241** | | **500** ft. Roll | 114.99 |
| **8241** | | **1000** ft. Roll | 219.99 |
| **9248** | RG-6U (75 ohm, solid center) | per ft. | .44 |
| **9248** | | **1000** ft. Roll | 314.99 |
| **8238** | RG-11 (75 ohm, stranded center) | per ft. | 1.14 |
| **8238** | | **100** ft. cut | 104.99 |
| **8238** | | **500** ft. Roll | 419.99 |
| **8213** | RG-11 (75 ohm, solid, foam) | per ft. | 1.09 |
| **8213** | | **100** ft. cut | 99.99 |
| **8213** | | **500** ft. Roll | 399.99 |

### ROTOR CABLE

| | | | |
|---|---|---|---|
| **8484** | 4-wire; 4-20 gauge | per ft. | $ .38 |
| **8484** | | **100** ft. cut | 32.99 |
| **8484** | | **500** ft. Roll | 149.99 |
| **8484** | | **1000** ft. Roll | 284.99 |
| **8448** | 8-wire; 2-18, 6-22 gauge | per ft. | .44 |
| **8448** | | **100** ft. cut | 39.99 |
| **8448** | | **500** ft. Roll | 169.99 |
| **8448** | | **1000** ft. Roll | 319.99 |
| **9405** | 8-wire; 2-16, 6-18 gauge | per ft. | .94 |
| **9405** | | **100** ft. cut | 89.99 |
| **9405** | | **500** ft. Roll | 389.99 |
| **9405** | | **1000** ft. Roll | 739.99 |

### COPPERWELD ANTENNA WIRE

| | | | |
|---|---|---|---|
| **8000** | No. 14 stranded antenna wire | per ft. | $ .38 |
| **8000** | | **100** ft. Roll | 31.99 |
| **8000** | | **1000** ft. Roll | 249.99 |

### No. 8 ALUMINUM GROUND WIRE

| | | | |
|---|---|---|---|
| **8018** | Multiples of **50** ft. | each | $ 19.99 |

**Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.**

### FOAM COAX w/PL-259s ON BOTH ENDS

| | | |
|---|---|---|
| **9354** | 50' RG-8U foam | $ 76.99 |
| **9355** | 75' RG-8U foam | 99.99 |
| **9356** | 100' RG-8U foam | 114.99 |

## BELMERIT (BLM)

| | |
|---|---|
| **DM-80** Credit card size multimeter w/case Δ | $ 24.99 |

## BENCHER (BEN)

| | |
|---|---|
| **BY-1** Iambic keyer paddle w/black base | $109.99 |
| **BY-2** Iambic keyer paddle w/chrome base | 129.99 |
| **BY-3** Iambic keyer paddle, gold plated Δ | 299.99 |
| **BY-4** Iambic paddle/blk base/gold components | 169.99 |

## Bencher - continued

AES Price

170-82 Mercury paddle .....drop ship 449.99
ST-1 Single lever keyer paddle, black base ... 109.99
ST-2 Sgl lever kyr paddle, chrome base ..... 129.99
RJ-1 Dlx hand key w/navy knob/black base .. 105.99
RJ-2 Dlx hand key w/navy knob/chrome base 129.99
YA-1 1kw low pass filter ..... 85.99

## BETTER RF (BET)

706 Tune Control for IC-706 series/IC-718 .... $ 32.99
I-Mate Message acc; 746PRO/756PRO II/III .. 74.99
Yae Tune Control for FT-100/857/897 series . 44.99

## Bounty Hunter (BOU)

Fast Tracker Metal detector/2-tone target ID $ 99.99
Tracker IV Metal detector/3-mode ..... 129.99
Quick Draw II Metal detector/full motion ..... 229.99
Sharp Shooter II Metal detector/LCD readout 299.99
Land Star Metal detector/3-tone audio discrim 349.99
Land Ranger Metal detector/programmable . 449.99
Time Ranger Metal detector/top-of-the-line . 549.99
Carry Bag For Bounty Hunter metal detectors 29.99
10" Coil 10" magnum coil; adds depth ..... 49.99

## BUCKMASTER (BUC)

HamCall CD-ROM ham listings ..... $ 50.99
OCF 6-band 300w 135' off-center-fed dipole 189.99

## BUSHNELL (BUS)

10-1911 Velocity sports speed gun ..... $ 99.99
13-0430 4x30 LiteVision compact binoculars Δ 6.99
13-1226 12x25 camo FRP compact binocs Δ 14.99
13-1250 12x50 wide angle Powerview binocs Δ 39.99
13-2514 8x21 black compact binoculars ...Δ 9.99
13-3410 7x35 Falcon binoculars .....Δ 19.99
26-3150 Night Vision 3.1x50 binocular .....Δ 399.99
78-0040 90mm refractor telescope .....D 349.99
78-0101 1.25" 9mm Kellner eye; 0040/6000/8000 Δ 19.99
78-0200 4.5" reflector telescope .....D 269.99
78-2010 4.5" reflector telescope .....Δ 149.99
78-2061 20-60x60 spotting scope w/tripod Δ 59.99

## BUTTERNUT (BUT)

Skyhawk 3X10 Triband 10 el, 24' beam w/bauln * $999.99

*Skyhawk 3X10 is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.

HF-6VX 80/40/30/20/15/10m 26' vert ant .... 349.99
HF-9VX 80/40/30/20/17/15/12/10/6m 26' vert 399.99
A17-12 17 & 12m kit for HF-6VX ..... 65.99
CPK Counterpoise kit ..... 139.99
MPS Mounting post sleeve ..... 12.99
RMK-II Roof mounting kit w/radials ..... 179.99
STR-II Radial kit only ..... 129.99
TBR-160S 160m resonator ..... 139.99
HF-2V 80/40m 32' vertical ..... 269.99
30-MRK 30m resonator for HF-2V ..... 109.99
TBR-160S 160m resonator ..... 139.99

## CQ (CQX)

Building and Using Baluns and Ununs ..... $ 19.99
HR Anthology - Homebrewing Techniques ..... 19.99
Lew McCoy on Antennas ..... 15.99
W6SAI HF Antenna Handbook ..... 19.99

## CSS (CSS)

Pacterm for Windows Software; Kan TNCs ... $ 99.99
PKTerm for Windows Software; PK-12/96/232 99.99

AES Price

## CABLE X-PERTS (CAB)

CXP1318FX CXP1318FX (low loss, flexible) per ft. $ .77
CXP1318FX .....500 ft. Roll 349.99
CXP1318FC-3 3' CXP1318FX/silver teflon PL259s 15.99
CXP1318FC-50 50' CXP1318FX/silver teflon PL259s 55.99
CXP1318FC-75 75' CXP1318FX/silver teflon PL259s 75.99
CXP1318FC-100 100' CXP1318FX/silver teflon PL259s 98.99
CXP1318FC-150 150' CXP1318FX/silver teflon PL259s 138.99
CXP1318FN-3 3' CXP1318FX/type N males .... 19.99
CXP1318FN-75 75' CXP1318FX/type N males 81.99
CXP1318FN-100 100' CXP1318FX/type N males 105.99
CXP1318FN-125 125' CXP1318FX/type N males 116.99
CXP008C-3 3' RG8 foam/silver teflon PL259s 13.99
CXP008C-6 6' RG8 foam/silver teflon PL259s 16.99
CXP008C-25 25' RG8 foam/silver teflon PL259s 27.99
CXP008C-50 50' RG8 foam/silver teflon PL259s 41.99
CXP008C-75 75' RG8 foam/silver teflon PL259s 56.99
CXP008C-100 100' RG8 foam/silver teflon PL259s 72.99
CXP008C-125 125' RG8 foam/silver teflon PL259s 89.99
CXP213C-6 6' RG213/silver teflon PL259s ... 16.99
CXP213C-15 15' RG213/silver teflon PL259s 22.99
CXP213C-25 25' RG213/silver teflon PL259s 39.99
CXP213C-50 50' RG213/silver teflon PL259s 49.99
CXP213C-75 75' RG213/silver teflon PL259s 59.99
CXP213C-100 100' RG213/silver teflon PL259s 75.99
CXP08XC-3 3' RG8X/silver teflon PL259s ..... 12.99
CXP08XC-6 6' RG8X/silver teflon PL259s ..... 16.99
CXP08XC-12 12' RG8X/silver teflon PL259s . 19.99
CXP08XC-25 25' RG8X/silver teflon PL259s . 25.99
CXP08XC-50 50' RG8X/silver teflon PL259s . 29.99
CXP08XC-75 75' RG8X/silver teflon PL259s . 33.99
CXP08XC-100 100' RG8X/silver teflon PL259s 37.99
6633S Type N male plug ..... 4.99
CXP058ARBS-3 3' RG58/BNC male- SO-239 21.99
CXP142SBJ-3 3' RG142/SMA male - BNC female 19.99
CXP08XCB-3 3' RG8X/male BNCs ..... 13.99
CXP08XCB-6 6' RG8X/male BNCs ..... 14.99
CXP316RSSO-3 3' RG316/SMA male - SO-239 19.99
235 1" tinned copper ground braid .....per ft 1.13
235 .....100 ft. Roll 92.99
2332 ½" tinned copper ground braid ...per ft. .69
2332 .....100 ft. Roll 52.99
AZ-10 10ga red/black DC power cord ...per ft .60
AZ-10 .....100 ft. Roll 50.99
AZ-12 12ga red/black DC power cord ...per ft .47
AZ-12 .....100 ft. Roll 37.99

## CAT Comm (CAT)

NVSCAN-1 Southern NV Radio Scanning Directory $ 15.99

## CELESTRON (CEL)

4020 40x dissecting microscope .....Δ $ 49.99
4030 40-500x educational microscope .....Δ 79.99
4050 40/100/400x biological microscope ...Δ 149.99
10110 StarHopper 10 Dobsonian telescope Δ 439.99
10112 StarHopper 12 Dobsonian telescope Δ 749.99
21019 C-6R refractor telescope .....Δ 729.99
21052 FirstScope 60AZ refractor telescope Δ 59.99
21086 FirstScope 80EQ refractor telescope D 209.99
302160 Soft case for Nexstar 60/80 .....Δ 49.99
31044 FirstScope 114 4.5" reflector telescope Δ 179.99
31056 C-6N reflector telescope .....Δ 349.99
31142 NexStar 114GT reflector telescope ...D 329.99
52211 60mm wildlife zoom spotting scope/tripod D 129.99

### LENSES (not for 10110 or 10112)

93318 1.25" 9mm Omni lens .....Δ $ 29.99
93320 1.25" 15mm Omni lens .....Δ 29.99
93326 1.25" 2x Omni Barlow lens .....Δ 39.99
93353 1.25" 18mm Utima lens .....Δ 69.99
93387 1.25" 5mm X-Cel lens .....Δ 49.99

## Celestron - continued

AES Price

93389 1.25" 10mm X-Cel lens .....Δ 49.99
93391 1.25" 18mm X-Cel lens .....Δ 49.99
93507 1.25" 2x deluxe Barlow lens .....D 29.99
94303 Plossl lens/filter kit w/carrying case ..Δ 109.99
93497 Standard tripod .....Δ 89.99
93501 Heavy duty tripod; NexStar 8i .....D 199.99
93590 Red Astro Lite flashlight .....Δ 3.99
93700 CD-ROM "The Sky for Celestron" .....Δ 17.99
93722 Sky Map .....Δ 12.99
94108 Diagonal, erect image 90° .....Δ 29.99
94119-A 1.25" moon filter .....Δ 9.99
94119-10 Eyepc filt set (21/80A/ND13/polarizing) Δ 29.99
94126-A Model A LPR filt; for 1¼" eyepieces D 44.99

## Channel Master (CHA)

9521A Prog light duty rotor/IR rem cont/3-wire $ 99.99

## CLOCKS

BMI 972AD 14" 12/24-hour wall clock ..... $ 27.99
BMI 973A 12" 24-hour wall clock ..... 49.99
MFJ 105C 24-hour quartz wall clock ..... 19.99
MFJ 107B 24-hour digital clock ..... 9.99
MFJ 108B 24/12-hour dual disp digital clock 19.99
MFJ 112B Deluxe world map clock ..... 24.99
MFJ 113 24/12-hr 1.8" LED clock/batt back-up 19.99
MFJ 115 DX'er 24-hr analog world wall clock . 24.99
MFJ 118 Giant 24/12 hour LCD clock ..... 24.99
MFJ 123 Eternity solar atomic clock ..... 79.99
MFJ 125 Calendar 24-hour analog wall clock 29.99

## COAX SEAL (UNV)

104 ½" x 60" coax seal ..... $ 3.99

## Coaxial Dynamics (COA)

81000-A Wattmeter w/SO-239s ..... $275.99
83000-A Peak reading wattmeter w/SO-239s 393.99
82004 50w 2-30MHz element ..... 87.99
82005 100w 2-30MHz element ..... 87.99
82006 250w 2-30MHz element ..... 87.99
82007 500w 2-30MHz element ..... 87.99
82008 1000w 2-30MHz element ..... 87.99
82009 2500w 2-30MHz element ..... 125.99
82010 5000w 2-30MHz element ..... 125.99
82013 10w 25-60MHz element ..... 71.99
82014 25w 25-60MHz element ..... 71.99
82015 50w 25-60MHz element ..... 71.99
82016 100w 25-60MHz element ..... 71.99
82029 10w 100-250MHz element ..... 71.99
82031 50w 100-250MHz element ..... 71.99
82033 250w 100-250MHz element ..... 71.99
82046 10w 400-1000MHz element ..... 71.99
82048 50w 400-1000MHz element ..... 71.99
82049 100w 400-1000MHz element ..... 71.99
88000 N female quick match connector each 12.99
88800 Carrying case for meter ..... 65.99

## COBRA (COB)

19DX IV AM Mobile CB ..... $ 49.99
20XTR AM Mobile CB w/neon magnetic ant D 79.99
25LTD (25LTD Classic) AM Mobile CB ..... 89.99
25WXNW ST Night Watch Sound Tracker AM Mob CB/WX 109.99
29LTD (29LTD Classic) AM Mobile CB ..... 99.99
29NW Night Watch AM Mobile CB ..... 119.99
29WXNW ST Night Watch Sound Tracker AM Mob CB/WX 129.99
75WX ST Sound Tracker AM Mobile CB w/WX 99.99
148GTL SSB/AM Mobile CB ..... 149.99
HH-Road Trip Sound Tracker HH CB/WX/mag ant 79.99
HGA-1000 Magnet mt CB antenna ..... 19.99
HGM-77 Noise canx/amplified mobile mic .... 24.99

## COMET (CMT)

### SWR/POWER METER

CMX-1 1.8-60MHz 2kw remote SWR/pwr meter $169.99


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## Comet - continued AES Price

**EKS-3** Optional 10' extension cable for CMX-1 28.99

### MOBILE ANTENNAS

**B-10** 2m/440 2.15db 12" cell look-alike ant $ 42.99
**B-10NMO** 2m/440 2.15db 12" cell look-alike NMO 42.99
**C-757** 2m/440 2.15/5.5db 38" foldover ant . 59.99
**C-757NMO** 2m/440 2.15/5.5db 38" foldover NMO 59.99
**C-767** 2m/440 3.5/6db 40" foldover ant ..... 64.99
**C-767NMO** 2m/440 3.5/6db 40" foldover NMO 64.99
**CA-2X4SR** 2m/440 3.8/6.2db 40" mob ant ... 69.99
**HA-050** 6m 33" ¼ wave mobile antenna ....D 49.99
**HP-32** 2m/440 3/5.5db 34" 350/250w ant .D 59.99
**HP-32FHN** 2m/440 3/5.5db 34" 350/250w ant 89.99
**M-24B** 2m/440 1.7/4.1db mag mt ant w/BNC 39.99
**M-24M** 2m/440 1.7/4.1db mag mt ant w/PL259 39.99
**M-24S** 2m/440 1.7/4.1db mag mt ant w/SMA 39.99
**SBB-1** 2m/440 1.5/2.15db 16" flex mobile ... 42.99
**SBB-1NMO** 2m/440 1.5/2.15db 16" flex NMO 42.99
**SBB-2** 2m/440 2.15/3.8db 18" black mobile 42.99
**SBB-2NMO** 2m/440 2.15/3.8db 18" blk NMO 42.99
**SBB-5** 2m/440 2.5/5.5db 39" black mobile ant 58.99
**SBB-5NMO** 2m/440 2.5/5.5db 39" black NMO 58.99
**SBB-7** 2m/440 4.5/7.2db 58" black mob ant 79.99
**SBB-7NMO** 2m/440 4.5/7.2db 58" black NMO 79.99
**SB-14** 6m/2m/440 43" chrome mobile ant ... 67.99
**SB-15** 6m/2m/440 2.15/4.5/7.2db 58" chr mob 84.99
**SBB-25** 2m 4.1db black mobile antenna ..... 48.99
**SBB-25NMO** 2m 4.1db black NMO mob ant .. 48.99
**SB-97** 2m/440/1.2 3/6.8/9.6db 39" type N ... 84.99
**SB-123** 1.2GHz 7.2db 24" type N mobile ant 54.99
**SBB-224** 2m/220/440 2.15/3.2/6db blk mob 78.99
**SBB-224NMO** 2m/220/440 2.15/3.2/6db blk NMO . 78.99
**SF-245** 2.4 GHz 7db 18" fg type N ant .....D 44.99
**SF-245SPR** 2.4GHz 7db 18" fg N ant/spring 69.99
**UHV-4** 10/6/2/440 55" mobile ant; FT8900R 109.99
**UHV-6** 40/15/10/6/2m/440 78" mobile ant ... 159.99
**L-3.5** 80m loading coil for UHV-6 ..... 34.99
**L-14** 20m loading coil for UHV-6/CA-HV .... 29.99
**L-18** 17m loading coil for UHV-6/CA-HV .... 29.99

### MOBILE MOUNTS

**3D4M** Mobile mt, 13' coax w/UHF connectors $ 26.99
**3D4N** Mobile mt, 13' coax w/type N ..... 26.99
**3D5M** Mobile mt, 16.5' coax w/UHF connectors 28.99
**5D4N** Roof mount, 13' coax w/type N ..... 34.99
**AD-10N** NMO mount to female N adapter ..... 17.99
**AD-15M** NMO mount to SO-239 adapter ..... 17.99
**AD-25M** SO-239 to NMO mount adapter ..... 14.99
**AD-35M** ⅜-24 stud to UHF mobile mt adapter 17.99
**CK-3-3/8-24** Dlx 2-step 16.5' cbl/3/8-24/UHF 42.99
**CK-3M** Dlx 2-step 10' cable w/UHF connectors 35.99
**CK-3M5** Dlx 2-step 16.5' cable w/UHF connects 42.99
**CK-3NMO** Dlx 2-step 16.5' cable w/NMO/UHF 42.99
**CK-5N** Dlx 13' cable assembly w/type N ..... 49.99
**CM-5M** Hvy duty mag mt, coax, max 4' ant .. 24.99
**CP-5-3/8-24** HD ⅜-24 mt (RS-730) w/16.5' coax 69.99
**CP-5M** Hvy duty UHF mt (RS-730) w/16.75' coax 69.99
**CP-5NMO** Hvy duty NMO mt (RS-730) w/16.5' coax 69.99
**CQ-5N** Dlx black QD tnk lip mt/17' coax/N ..D 29.99
**CR-5M** Std coax assy, 16.5' coax, UHF conn . 19.99
**CT-5M** Trunk lip mount w/16.5' coax ..... 39.99
**GRB-5M** Deluxe black trunk lip mt w/coax ... 69.99
**MG-4N** Magnet mt w/13' coax, N connector .. 54.99
**RS-9** Trunk lip mount, no coax ..... 11.99
**RS-520** Mini heavy duty trunk/hatch mount . 28.99
**RS-560C** Luggage rack mount, no coax ..... 37.99
**RS-720** Hatch/rear door/tnk multi-adj mt ..... 29.99
**RS-720NMO** Hch/rear door/tnk multi-adj NMO mt 29.99
**RS-730** HD rear van/SUV door/tnk lip mt, no coax 32.99
**WS-1M** Window clip mt w/UHF connectors .... 66.99

### BASE STATION ANTENNAS

**CA-712EF** 440 9db 10' 5" base antenna ..... $119.99
**CA-ABC22A** 2m 6.5db 9' 5" base/rptr ant .... 75.99

## Comet - continued AES Price

**CA-ABC23** 2m 7.8 db 13' 4" base/rptr ant ... 119.99
**CA-F72GF** 440-470 6db 3' 6" tunable ant .... 119.99
**CA-52HB4** 6m 4 el 10.4db 10' 6" boom beam 129.99
**CHA-250B** 3.5-57MHz no radials 23.5' vertical 429.99
**CX-333** 2m/220/440 6.5/7.8/9db 10.25' ant 189.99
**CYA-1216E** 1.2GHz 16el 16.6db 4' 5" bm N beam 129.99
**DS-150S** 6m/2m/440/900/1.2 discone/60' coax 99.99
**GH-50** 6m 2.15db 7' 10" fg base antenna .... 109.99
**GP-3** 2m/440 4.5/7.2db 5' 11" base/rptr ant 99.99
**GP-6** 2m/440 6.5/9db 10' 2" base/rptr ant .. 159.99
**GP-9** 2m/440 8.5/11.9db 17' 8" base/rptr .... 219.99
**GP-9N** 2m/440 8.5/11.9db 17' 8" N base/rptr 219.99
**GP-15** 6/2m/440 3/6.2/8.6db 7' 11" base ..... 179.99
**GP-21**/CA-1221S 1.2 14.8db 8' N base/rptr .. 169.99
**GP-24** 2.4GHz 15.4db 5' 10" N base/rptr ..... 169.99
**GP-98** 2m/440/1.2 6.5/9/13.5db 9' 8" N ant . 199.99
**KP-20** 900 MHz 9.2db 7' 4" type N base/rptr 119.99

### DUPLEXERS AND TRIPLEXERS

**CF-142** 1.3-150/200-480 600/400w UHF/leads $ 69.99
**CF-360A** 1.3-30/50-470 600w UHF w/leads . 69.99
**CF-360B** 1.3-30/50-470 600w UHF/common lead 69.99
**CF-416A** 2m/440 800/500w UHF w/leads ..... 49.99
**CF-416B** 2m/440 800/500w UHF/N w/leads . 49.99
**CF-416C** 2m/440 800/500w N/UHF/N leads . 54.99
**CF-416W** 1.3-250/400-1400 400/200w N/leads ... 69.99
**CF-530** 1.3-90/125-470 600w UHF w/leads . 74.99
**CF-530C** Backwards duplexer for FT-8900R . 69.99
**CF-706A** 1.3-56/75-470 350w UHF w/leads . 74.99
**CF-4160I** 2m/440 800/500w UHF/UHF/N, no leads 48.99
**CF-4160J** 2m/440 800/500w SO239, no leads . 53.99
**CF-4160K** 2m/440 800/500w all UHF, no leads 48.99
**CFX-324A** 2m/220/440 600w UHF w/leads ... 88.99
**CFX-324B** 2m/220/440 600w UHF, no leads . 85.99
**CFX-514** HF/2m/440 800/800/500w UHF w/leads 79.99
**CFX-514J** HF/2m/440 800/800/500w UHF, no leads 74.99
**CFX-514N** HF/2m/440 800/800/500w UHF/N w/leads 79.99
**CFX-4310C** 1.3-150/440/1.2 triplexer, no leads 79.99
**CFX-5140** HF/6m/2m/440 800/800/500w UHF, no leads 74.99

### HT & HANDHELD SCANNER ANTENNAS

**BNC-24** 2m/440 17" 2.15/5.3db BNC whip ... $ 24.99
**CH-32** 2m/440 1.75" BNC Miracle Baby ant . 29.99
**CH-75** 2m/440 0/3.2db 14.75" BNC ant ..... 25.99
**HB-05** 18" BNC female - SMA male adapter/cbl 14.99
**HM-05** 18" BNC male - SO-239 adapter/cable 14.99
**HS-05** 18" SMA male - SO-239 adapter/cable 14.99
**HS-10** 39" SMA male - SO-239 adapter/cable 17.99
**HT-224** 2m/220/440 11.5" SMA antenna ..... 47.99
**SH-55** 2m/440 1.5/3.2db 15" BNC ant ..... 33.99
**SH-95** 2m/440/1.2 1.5/2.15/5.5db BNC ant . 34.99
**SMA-3** 2m/440 1.2/1.7db 9.75" SMA ant ..... 39.99
**SMA-24** 2m/440 17" 2.15/5.3db SMA whip ... 24.99
**SMA-501** 2m/440/900 1.5" SMA antenna ..... 29.99
**SMA-503** 2m/440 8.75" SMA antenna ..... 29.99
**SMA-703** 2m/440/1.2GHz 6.5" SMA ant ..... 31.99

## Comm Outfitters (COF)

**EXP-1** Expedition Pack for Yaesu FT-817 ..... $ 99.99

## COMM-SPEC (COM)

**ID-8** Automatic morse station identifier ..... $ 69.99
**SS-64** 64-tone mini prog CTCSS encoder ..... 28.99
**TE-32** 32-tone CTCSS prog encoder box ..... 49.99
**TS-64DS** 64-tone CTCSS prog encoder/decoder 57.99

## CONNECTORS

### AMPHENOL COAX CONNECTORS (AMP)

**83-1SP-1050** Male coax plug (PL-259) ..... $ 1.99
**83-1SP** Silver plated coax plug (PL-259) ..... 2.99
(CZL) **silver plated** teflon PL-259 ..... 2.99
(VAN) **silver plated** teflon PL-259 ..... 2.99
**83-185-RFX** Reducer for RG-58 (UG-175) . .99
**83-168-RFX** Reducer; RG-59/RG-8X (UG-176) .99

## Connectors - continued AES Price

(SHA) **PL-259-CP-G** Solderless PL259;RG8X/58 6.99
(SHA) **PL-258-CP-G** Solderless splice;RG8X/58 9.99
**83-1AP** Right angle adaptor (UG-646) ..... 8.99
**83-1J** Double female adaptor (PL-258) ..... 6.99
**83-1R** Female chassis mt socket (SO-239) ... 3.99
**83-1T** T-connector adaptor (M-358) ..... 11.99
**83-877** Double male adaptor ..... 12.99
**83-878** Single hole ⅜" chassis socket ..... 4.99
**31-002** BNC male connector for RG-58 ..... 4.99
**31-012** BNC male connector; RG-59/RG-8X .. 7.99
**31-221** BNC female chassis socket ..... 2.99
**82-24** Type N female chassis mt socket ..... 7.99
**82-64** Type N right angle adaptor ..... 19.99
(CAB) **6633S** Type N male plug ..... 4.99
(VAN) **N connector** Type N connector for 9913 4.99
**82-202-1006** Type N male; 8214/9913/9913F . 7.99
**34025** Type N male connector for RG-58 ..... 8.99

### AMPHENOL COAX ADAPTORS (AMP)

**2900** SO-239 to BNC male adaptor ..... $ 14.99
**4400** SO-239 to type N male adaptor ..... 14.99
**31-28** BNC female to PL-259 adaptor ..... 16.99
(HOU) **SMA-872** SO-239 to SMA plug adaptor 5.99

### AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

(PHI) **61-608B** 8-pin female mic plug ..... $ 4.99
**25-7365** BNC female to SO-239 ..... 3.99
**25-7420** BNC male to SO-239 ..... 3.99
**26-8010** Type N double female ..... 4.99
**26-8011** Type N chassis mount ..... 2.99
**26-8014** N female to PL-259 ..... 4.99
**26-8015** N male to SO-239 ..... 4.99
**26-8016** BNC female to N male ..... 4.99
**26-8017** BNC male to N female ..... 4.99
**27-8120** BNC female to PL-259 ..... 3.99
**27-8130** BNC double male ..... 3.99
**27-8140** BNC T; 2 female, 1 male ..... 2.99
**27-8142** BNC T, 3 male .....Δ .49
**27-8470** Dual BNC chassis mount ..... 3.99
**29-3855** BNC female to SMA male ..... 3.99
**29-4140** SO-239 to mini PL-259 ..... 3.99
**CPAD-207** Chassis mt SO-239 double female 4.99

### VANCO MICROPHONE CONNECTORS (VCO)

**CBC-3** 3-pin female mic plug .....Δ $ .39
**CBC-4** 4-pin female mic plug ..... 4.99
**CBC-5** 5-pin female mic plug ..... 3.99
**CBC-6** 6-pin female mic plug ..... 4.99
(AIM) **19-1289** 8-pin female mic plug ..... 4.99
**CBC-8P** Panel mt 8-pin male ..... 5.99

### KENWOOD DIN PLUGS (KEN)

**7-pin DIN** plug ..... $ 4.99
**8-pin DIN** plug ..... 6.99
**13-pin DIN** plug ..... 9.99

### VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)

**MH-1** Magnetic mic holder ..... $ 1.69
**MH-2** Regular mic holder ..... 1.49
**P-12R** 2-contact cigarette plug ..... 1.99
**P-12V** Cig lighter plug w/leads ..... 1.99
**P-35** 3.5mm miniature phone plug ..... .69
**P-212** 2-outlet cigarette plug adapter ..... 4.99
**P-212B** Dual cigarette lighter socket adapter 8.99
(DAL) **15-0293** 3.5mm mono phone plug .....Δ .19
(HOU) **AP-115** ¼" metal stereo plug ..... 1.99
(HOU) **AP-135** 3.5mm stereo mini phone plug .69
(HOU) **VCC-6B** 20 pack of cable clips; RG6/8X 2.99

## Connect Systems (CSY)

**CS-800** Desk duplex interconnect/rptr controller $369.99
**CS-900** Desk simplex interconnect ..... 369.99

## CROSS DEVICES (CRS)

**STUF** Coax connector waterproofing filler ..... $ 5.99

AES Price

# CUSHCRAFT (CUS)

**At Cushcraft's request, amateur radio dealers are not authorized warranty depots for Cushcraft Antennas. All warranty issues should be directed to the Technical Support Department/Warranty at Cushcraft (603) 627-7877.**

### VHF/UHF FM BEAMS* (Vertical polarization)

**A148-3S** 2m, 3 el wideband beam, 7.8db .... $ 77.99
**A148-10S** 2m, 10 el wideband beam, 13.2db 124.99
**A449-6S** 440 MHz, 6 el, 3' boom, 10 db ..... 73.99
**A449-11S** 440 MHz, 11 el, 4.5' boom, 13 db . 99.99
*Antennas can be mounted vertically or horizontally!

### 2M/440 FM BEAMS* (Vertical polarization)

**A270-6S** 2m/440, 3/3 el, 2.8' boom, 7.8 db .. $ 99.99
**A270-10S** 2m/440, 5/5 el, 6.17' boom, 10 db 129.99
*Antennas can be mounted vertically or horizontally!

### TRI-BAND 6M/2M/440 BEAM

**A6270-13S** 6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db $249.99

### FM RINGOS - 1/2 Wave Verticals

**AR-10** 10m FM Ringo, 17.6', 3db, 1000w ..... $ 99.99
**AR-6** 6m FM Ringo, 10.1', 3db, 1000w ..... 99.99
**AR-2** 2m FM Ringo, 3.9', 3db, 1000w ..... 59.99
**AR-450** 440MHz FM Ringo, 1.4', 3db, 500w .. 45.99

### RINGO RANGERS - FM Verticals

**ARX-2** 2m FM Ringo Ranger ..... $ 69.99
**ARX-2B** 2m FM Ringo Ranger II, 14', 7db, 1000w 84.99
**ARX-220B** 220 FM Ringo Ranger II, 9.3', 7db, 500w 84.99
**ARX-450B** 440FM Ringo Ranger II, 4.9', 7db, 500w 84.99

### DUAL-BAND 2M/440 FM RINGOS

**AR-270** 2m/440MHz FM, 3.75', 3/5.5db, 250w $114.99
**AR-270B** 2m/440 MHz FM, 7.7', 5.5/7.5db, 250w 124.99

### TWIST, OSCAR BEAM (Horiz/Vert Polarization)

**A148-20T** 2m 20el 10.8'boom 13db twist ..... $174.99

### BOOMER ANTENNAS

**124WB** 2m Boomer, 4 el, 4' boom, 10.2 db ... $109.99
**13B2** 2m Boomer, 13 el, 15' boom, 14.2 db .. 199.99
**17B2** 2m Boomer, 17 el, 31' boom, 18 db ..... 299.99
**26B2** 2 13B2s vertically stacked ..... 499.99
**224WB** 220 Boomer, 4 el, 3' boom, 10.2db ... 96.99
**719B** 432 19 el 13.5' boom 15.5db ..... 189.99

### BOOMER POWER DIVIDERS

**PD-2** Power divider for 2 13B2s ..... $ 71.99
**PD-4** Power divider for 4 13B2s ..... 90.99

### VHF/UHF BEAMS* (Horizontal polarization)

**A50-3S** 6m, 3 el, 6' boom, 8 db, stainless hdwre $139.99
**A50-5S** 6m, 5 el, 12' boom, 10 db, stainless hdwre 219.99
**A50-6S** 6m, 6 el, 20' boom, 11db, stainless hdwre 349.99
**A148-10S** 2m, 10 el wideband beam ..... 124.99
**A430-11S** 430 MHz, 11 el, 4' boom, 13 db .... 99.99
*Antennas can be mounted vertically or horizontally!

### MONO-BAND MOBILE ANTENNAS

**CS-28M** 10m magnet mt antenna ..... $ 64.99
**CS-50M** 6m magnet mt 3 db antenna ..... 64.99
**CS-147A** 2m coil & whip only ..... 44.99
**CS-147M** 2m magnet mt 3 db antenna ..... 64.99
**CS-220M** 220 magnet mt 3 db antenna ..... 64.99
**CS-450M** 440 magnet mt 5 db antenna ..... 64.99

### DUAL-BAND 2M/440 MOBILE ANTENNAS

**CS-270A** 2m/440 coil & whip only ..... $ 64.99
**CS-270M** 2m/440 3.7/6 db magnet mt ant .. 89.99

### MOUNTS ONLY FOR MOBILE ANTENNAS

**CS-MG** Magnetic mount ..... $ 32.99
**CS-MGN** Magnetic mount w/N connector ..... 37.99
**CS-TL** Trunk lip mount ..... 32.99

### MULTIBAND HF VERTICAL ANTENNAS

**MA-5V** 20/17/15/12/10m 14.7' vertical ant .. $259.99
**MA-6V** 20/17/15/12/10/6m 14.7' vertical ant 319.99
**MA-160V** 160m 36' vertical ant w/radials .... 249.99
**MA-8040V** 80/40m 22' vertical antenna ..... 259.99

## Cushcraft - continued

AES Price

**R-6000** 20/17/15/12/10/6m 19' vertical ..... 369.99
**R-8** 40/30/20/17/15/12/10/6m 28.5' vert ..... 539.99
**R-8GK** Guy kit for R-8 ..... 56.99

### ROTATABLE HF DIPOLES

**D-3** 20/15/10m World Ranger rotatable dipole $299.99
**D-3W** 30/17/12m rotatable dipole ..... 299.99
**D-4** 40/20/15/10m World Ranger rotatable dipole 419.99
**D-40** 40m World Ranger rotatable dipole ..... 369.99

### BIG THUNDER HF TRI-BAND BEAM

**X-7** 20/15/10m, 7 el, 18' boom, 12.5/13db .. $799.99
**X-740** 40m add-on kit for X-7 ..... 349.99

### BIG THUNDER HF MONOBAND BEAM

**XM-240** 40m, 2 el, 22' boom, 7 db ..... $829.99
**TEN-3** 10m, 3 el, 8' boom, 8 db ..... 249.99

### MULTIBAND HF BEAM ANTENNAS

**A-3S** 20/15/10m, 3el, 14'bm, 8db, stainless hdwr $549.99
**A-743** 40m or 30m add-on kit; A-3/A-3S ... 199.99
**A-4S** 20/15/10m, 4el, 18'bm, 8.9db, stainless hdwre 649.99
**A-744** 40m or 30m add-on kit; A-4/A-4S ... 199.99
**A-3WS** 17 & 12m, 3 el, 14' boom, 8 db ..... 429.99
**A-103** 30m add-on kit for A-3WS ..... 199.99
**ASL-2010** 13.5-32MHz 8el 18' bm 6.4db LP . 899.99
**MA-5B** 20/17/15/12/10m 7.3' boom mini beam 399.99

### LIGHTNING ARRESTORS

**LAC-4** 200w SO-239 gas tube arrestor ..... $ 64.99
**LAC-4H** 2kw SO-239 gas tube arrestor ..... 70.99
**LAC-4N** 200w type N gas tube arrestor ..... 83.99
**LAC-4NH** 2kw type N gas tube arrestor ..... 86.99
**LC-2** Extra 200w cartridge for LAC-4/4N ... 20.99
**LC-2KW** Extra 2kw cartridge for LAC-4H/4NH 22.99
**5VB** Vinyl connector boots .....pack of 5 15.99

# DCI (DCI)

**145-2H** 2m 144-146MHz 200w bandpass filter $119.99
**146-4H** 2m 144-148MHz 200w bandpass filter 119.99
**223.5-3H** 222-225MHz 200w bandpass filter 119.99
2m/220 models w/N connectors add $10 special order
**435-10C** 430-440MHz 200w N bandpass filt 139.99
**445-10C** 440-450MHz 200w N bandpass filt 139.99
**146/444-DB** 144-148/438-450 200w bp filter 189.99

# DAIWA (DAI)

**CN-101** 1.8-150 15/150/1.5kw SWR/pwr meter/light $ 99.99
**CN-103M** 140-525 20/200w SWR/power meter 99.99
**CN-103N** 140-525 20/200w N SWR/pwr meter 109.99
**CN-801H** 1.8-200 20/200/2kw SWR/pwr mtr D 149.99
**CN-801HP** 1.8-200 20/200/2kw SWR/PEP pwr 159.99
**CN-801S** 900-2.5GHz 2/20w N SWR/pwr meter 239.99
**CN-801V** 140-525 20/200w SWR/power meter 154.99
**CS-201** 2-position 600MHz coax switch ..... 26.99
**CS-201GII** 2-position 2GHz N coax switch .... 44.99
**SS-330W** Variable 30A switch ps/fan/meters 169.99
**SS-505** Variable 50A switch ps/fan/meter/3-outputs 399.99

# DAVIS (DAV)

**6150** Wireless Vantage Pro weather station D $399.99
**6152** Wireless Vantage Pro2 weather station . 539.99
**7400** Perception II indoor WX unit ..... 129.99
**7425** Wizard III weather station ..... 179.99
**7440** Monitor II weather station ..... 269.99
**7852** Rain Collector II, 0.01" ..... 69.99
**7859** External temp/humd Sensor II; 7440 119.99
**7862** Weatherlink Win interface/software ... 149.99
**7866** Weatherlink Mac interface/software ..D 49.99
**7870** Modem adapter for 7862/7866 ...D .49
**7867** Weatherlink Mac to Win conv kit ....D .29
**7868** Weatherlink Win to Mac conv kit ....D .29
**7873** Cig lighter power cord .....Δ 9.99
**7876**-040 4-conductor 40' extension cable 18.99
**7878**-040 6-conductor 40' extension cable 22.99
**7880** 8-conductor 25' junction box cable Δ 2.99

## Davis - continued

AES Price

**7881** 8-conductor 50' junction box cable .. 25.99
**7882** 8-conductor 100' junction box cable 45.99
**7890** Mast mount for anemometer .....D 9.99
**0131** Weather forecasting quick reference card 9.99
**0276** WindScribe electronic wind/temp indicator 99.99
**0281** Wind Wizard handheld wind indicator .. 49.99

# DIAMOND (DIA)

### SWR/POWER METERS

**SX-20C** HF/6m/2m 30/300w meter ..... $ 89.99
**SX-40C** 144-470 (220 w/correction) 15/150w 79.99
**SX-100** 1.6-60 MHz 30/300/3kw PEP meter .. 134.99
**SX-200** 1.8-200 MHz 5/20/200w PEP meter .. 94.99
**SX-400** 140-525 MHz 5/20/200w PEP meter . 114.99
**SX-600** Dual band 1.8-160 /140-525 200w PEP mtr . 169.99
**SX-1000** 1.8-160/430-1300MHz 200w PEP meter . 214.99

### HT & HANDHELD SCANNER ANTENNAS

**MAY-1000** 2el 120-500MHz handheld beam . $ 99.99
**RH-3** 2m/440 1.75" BNC mini HT duck ..... 24.99
**RH-77CA** 2m/440 15" BNC rubber gain ant .. 24.99
**RH-205** 2m ⅝ wave 47.5" BNC telescopic ant 24.99
**RH-519** 2m/440 8" BNC flexible whip ..... 24.99
**RH-707** 2m/440 8¼" BNC tiltable whip ..... 33.99
**RH-789** 93-1100MHz adjustable freq BNC ant 34.99
**RH-951S** 2m/440/1.2GHz 14" BNC slim duck 44.99
**RHF-40** 2m/440 15" BNC flexible rubber gain ant 29.99
**SRH-77CA** 2m/440 15" SMA rubber gain ant 24.99
**SRH-320A** 2m/220/440 13.75" SMA flex whip 49.99
**SRH-519** 2m/440 8" SMA flexible whip ..... 27.99
**SRH-789** 93-1100MHz adjustable freq SMA ant 34.99
**SRH-805** 2m/440/1.2GHz 1.75" SMA ant ..... 27.99
**SRH-815** 2m/440/1.2GHz 6" SMA flex whip .. 31.99
**SRH-999** 6m/2m/440/1.2GHz 20" SMA whip . 59.99
**SRHF-40** 2m/440 15" SMA flexible rubber gain ant 29.99

### MONO-BAND MOBILE ANTENNAS

**HF-6FX** 6m 2.15db 44" mobile antenna ..... $ 69.99
**HF-50CX** 6m 3.5db 71" mobile antenna ..... 99.99
**M-285** 2m 3.4db 52.4" mobile antenna ..... 31.99
**M-285SNMO** 2m 3.4db 52.4" NMO mobile ant 31.99
**M-685** 6m 2.15db 52.4" mobile antenna ..... 31.99
**M-685SNMO** 6m 2.15db 52.4" NMO mobile ant 31.99
**MG-200** 2.4GHz 7db 23.6" N mobile ant ..... 99.99
**NR-22L** 2m 6.5db 96.8" mobile antenna ..... 69.99
**NR-124NMO** 1.2GHz 8.4db 25" NMO antenna 64.99
**NR-140BNMO** Black 220 4db 37" NMO ant .. 53.99
**SG-2000HD** 2m 5.2db 62.6" 250w mob ant .. 89.99

### DUAL-BAND MOBILE ANTENNAS

**CR-270A** 2m/440 2.15/3.4db 17.2" mobile ant $ 42.99
**MR-77** 2m/440 2.15/3.4db 20" magnetic ant 34.99
**MR-77SMA** 2m/440 2.15/3.4db 20" mag w/SMA 39.99
**NR-72BNMO** Black 2m/440 2.15db 14" NMO 41.99
**NR-73BNMO** Blk 2m/440 2.15/5.5db 34" NMO 57.99
**NR-770HA** 2m/440 3/5.5db 40" mobile ant .. 56.99
**NR-770HB** Black 2m/440 3/5.5db 40" mobile 59.99
**NR-770HNMO** 2m/440 3/5.5db 40" NMO mobile 56.99
**NR-770HBNMO** Blk 2m/440 3/5.5db 40" NMO 59.99
**NR-770HRKS** 2m/440 3/5.5db 40" adhesive mt 109.99
**NR-7900A** 2m/440 3.7/6.4db 57" hi pwr mob ant 84.99
**SG-M510** 2m/440 2.15/5.5db 37" mob ant ... 59.99
**SG-7000A** 2m/440 2.15/3.8db 19" mobile .... 69.99
**SG-7500A** 2m/440 3.5/6db 41" mobile ant ... 79.99
**SG-7500NMO** 2m/440 3.5/6db 41" NMO ant .. 79.99
**SG-7900A** 2m/440 5/7.6db 62" mobile ant ... 114.99
**SG-7900ANMO** 2m/440 5/7.6db 62" NMO ant 114.99
**K-400CNMO** Hactb/tnk mt/coax; SG7900ANMO 69.99

### TRI-BAND MOBILE ANTENNAS

**CR-320A** 2m/220/440 2.15/3.8/5.5db 36" .... $ 89.99
**CR-320BNMO** Black 2m/220/440 36" NMO ant 89.99
**CR-627B** 6m/2m/440 2.15/4.5/7.2db 60" ant 99.99
**CR-627BNMO** 6m/2m/440 2.15/4.5/7.2db 60" 99.99
**HV-7A** 10/6/2m/440 54" UHF mount mobile ant 109.99


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## Diamond - continued

AES Price

HVC-7 40m loading coil for HV-7A/MV-3A . 44.99
HVC-14 20m loading coil for HV-7A/MV-3A 37.99
HVC-18 17m loading coil for HV-7A/MV-3A 37.99
HVC-21 15m loading coil for HV-7A/MV-3A 37.99
NR-2000NA 2m/440/1.2 3.15/6.3/9.7db 39" N mob 89.99
SG-M911 6m/2m/440 2.15/3/5.8db 41" mob 69.99

### QUAD-BAND MOBILE ANTENNAS

CR-8900A 10m/6m/2m/440 0/0/2.15/5.5db 50" $ 99.99
D-220 2m/440/900/1.2G 35.5" mobile discone 99.99

### ADHESIVE BACKED MOBILE MOUNT

HRKS SO239 mt/13' coax/SMA/PL259 adapter $ 69.99

### MAGNET MOUNTS

DPK-4NM-N Hvy dty mag mt, cbl, N, 45" max $ 49.99
K-702M Hvy duty mag mt, 6⅜" dia, 50" max 49.99
SPM-35 Hvy duty mag mt, cable, 45" max .... 39.99
SPM-NMO Hvy dty NMO mag mt, cbl, 45" max 44.99

### TRUNK LIP MOUNTING KITS

K-400 Hatch/trunk mt; NR/SG antennas ..... $ 39.99
K-400C Hatch/trunk mt w/coax; UHF mount . 69.99
K-400CNMO Hatch/trunk mt w/coax; NMO mt 69.99
K-400S Hatch/trunk mt w/coax; UHF mt/SMA 79.99
K-400SNMO Hatch/trunk mt w/coax; NMO/SMA 79.99
K-400-3/8C Trunk mount w/6.5' cable; ⅜-24 69.99
K-412C Light duty hatch/tnk mt w/coax; UHF mt 59.99
K-412CNMO Light duty hatch/tnk mt w/coax; NMO 59.99
K-412S Light duty hatch/tnk mt w/coax; UHF/SMA 69.99
K-412SNMO Lt duty hatch/tnk mt/coax; NMO/SMA 69.99
C-110 10' extension cable for K-412 mts .. 14.99
K-600M Tilt angle SO-239 trunk mt w/cable . 57.99
K-600S Tilt angle SO-239 tnk mt w/cable/SMA 57.99
K-601M SO-239 hideaway trunk mt, 6' coax . 69.99
K-601NMO NMO hideaway trunk mt, 6' coax . 69.99
C-110 10' extension cable for K-601 mts .. 14.99
K-604M Tilt angle trunk mt w/flexible cable D 29.99
K-9000LRM Motorized luggage rack mount .. 109.99
K-9000TM Motorized trunk/hatchback mt ..... 109.99

### MIRROR & LUGGAGE RACK MOUNTS & KITS

K-515S Lug rack SO-239 mt; new type SUV/SMA $ 69.99
K-515SNMO Lug rack NMO mt; new type SUV/SMA 69.99
K-540 Mirror/luggage rack mt; under 45" ..... 35.99
K-540KM Mirror/luggage rack mt w/coax ..... 59.99
K-550* Luggage mt; new mini vans (use GLP) 44.99
K-550KM* Luggage mt w/SO-239 base/coax 69.99
*K-550 series not recommended for Yae ATAS-100/120

### MOUNTING GROUP HARDWARE

BNCJ-SMAP Low prof blk BNC-F to SMA-M adapt $ 9.99
C-101 SO-239 mt, 6.5' RG-316 low-loss coax 32.99
C-101NMO NMO mt, 6.5' RG-316 low-loss coax 32.99
C-104SMA 4' RG-58 ext cbl; SMA male & SO-239 16.99
C-105SMA 5' RG-58 ext cable; C-101/SMA male 16.99
C-110 10' ext cable; C-101/K-601/K-400-3/8C 14.99
C-110BNC 10' extension cable to BNC male . 22.99
C-110SMA 10' RG-58 ext cable; C-101/SMA male 22.99
C-211 SO-239 mt, 6.5' coax, 10' coax entend 44.99
C-213 SO-239 mt, 13.5' RG-316 low-loss coax 41.99
C-213NMO NMO mt, 13.5' RG-316 low-loss coax 41.99
CRM Stainless steel right angle bracket w/U-bolts 16.99
NMO/UHF NMO to UHF adapter ..... 12.99
NMO/UHF-B Black NMO to UHF adapter ..... 13.99

### MONO-BAND BASE STATION ANTENNAS

A-144S5 2m 5 el 37.5" boom 9db beam ..... $ 59.99
KB-144 Side mounting bracket/hardware .. 24.99
A-430S10 430 10 el 43" boom 13db beam .... 69.99
KB-430 Side mounting bracket/hardware .. 22.99
A-430S15 430 15 el 89" boom 14.8db beam . 89.99
A-502HB 6m 2 el 2.6' boom 6.3db beam ..... 99.99
A-504HB 6m 4 el 10.7' boom 10.8db beam.D 149.99
CP-22E 2m 6.5db 9' base antenna ..... 54.99
DP-GH62 6m 6db 21' base antenna ..... 147.99
F-22A 2m 6.7db 10.5' base antenna ..... 99.99

## Diamond - continued

AES Price

F-23A 2m 7.8db 15' base antenna ..... 129.99
F-718A 440 11.5db 15' type N base antenna 219.99
F-1230AII 1.2GHz 13.1db 12' N base ant ..... 179.99
G-200 2.4GHz 11db 6' N base antenna ..... 199.99
2400-Y12 2.4GHz 12db 8el 15"bm 25w N beam 129.99

### DUAL-BAND BASE STATION ANTENNAS

U-200 440/1.2GHz 8.3/11.7db 6' N base ant $119.99
X-30A 2m/440 3/5.5db 4.5' base antenna .... 69.99
X-50A 2m/440 4.5/7.2db 5.6' base antenna . 99.99
X-50NA 2m/440 4.5/7.2db 5.6' base N ant ... 99.99
X-200A 2m/440 6/8db 8.3' base antenna ..... 124.99
X-300A 2m/440 6.5/9db 10.5' base antenna 134.99
X-500HNA Hvy duty 2m/440 8.3/11.7db 17.8' N ant 249.99
X-510HMA 2m/440 8.3/11.7db 17.2' hi pwr base 209.99
X-510MA 2m/440 8.3/11.7db 17.2' base ant 189.99
X-510NA 2m/440 8.3/11.7db 17.2' type N ant 189.99
X-510NJ 143.5-146.5/428-442 8.3/11.7db 17.2' N 199.99
X-700HNA 2m/440 9.3/13db 24' type N ant . 389.99

### TRI-BAND BASE STATION ANTENNAS

D-130J 50-1300 MHz 200w discone antenna $ 99.99
D-130NJ 50-1300 MHz 200w N discone ant .. 99.99
V-2000A 52-54MHz/2m/440 2.1/6.2/8.4db 8.3' 164.99
X-3200A 2m/220/440 6/7.8/8db 10' base .... 169.99
X-6000A 2m/440/1.2 6.5/9/10db 10.5' N ..... 199.99

### DUPLEXERS & TRIPLEXERS

MX-37 440/1200MHz N/N duplexer w/cable .. $ 64.99
MX-62M HF-6m &2m/440, 12" cables dplxr . 74.99
MX-72A HF-2m/440 dplxr/440 N female, 12" cbls 54.99
MX-72D HF-2m/440 400/150/100w duplexer 48.99
MX-72H HF-2m/440 duplexer w/12" cables .. 49.99
MX-72N HF-2m/440 dplxr; 440 type N male, 12" cbls 49.99
MX-214D 2m/220 150/100w dplxr, no cables 69.99
MX-324 2m/220/440 triplexer ..... 89.99
MX-324D 2m/220/440 triplexer, no cables .... 84.99
MX-610 HF-6m duplexer; IC-706/FT-100 ..... 69.99
MX-2000 HF-6m/2m/440 400/400/250w triplexer 84.99
MX-3000 HF-2m/440/1.2 400/200/100w triplexer 79.99
MX-3000N HF-2m/440/1.2 400/200/100w N triplexer 85.99

### ACCESSORIES

CA-23RP 2500MHz 200w N-F/N-M lightning protect $ 41.99
CA-23RS 2500MHz 200w N lightning protector 39.99
CA-23RW 2500MHz 200w N waterproof protector 44.99
CA-35R/RS 1000MHz 400w lightning protector 29.99
CA-35RPW 1000MHz 400w waterproof protector 39.99
CX-210A 1.5kw DC-1000MHz coax switch .... 44.99
CX-210N 1.5kw DC-1500MHz N coax switch . 74.99
CX-310A HD 3-pos DC-800MHz coax switch . 83.99
DL-30A 15/100w peak 0-500MHz dummy load 27.99
DL-30N 15/100w peak 0-500MHz N dummy load 39.99
GZV-4000 Variable 40A switching ps/meter/spkr 179.99
PC-3 10' DC cable w/T-connector for mob rig 15.99

## DRAKE (DRA)

1590 35-55, 108-174 MHz VHF conv; R8B .D $229.99
7852 R-8B technical manual .....D 29.99

## DURACELL (DUR)

9V 9v alkaline battery ..... $ 3.69
AA-4 4-pack AA alkaline batteries ..... 3.69

## DYNAMITE (DYN)

1000 Dyna-Sport 1500mah 6-cell flat nicad Δ $ 9.99
1145 Dyna-Fun 2000mah 6-cell nicad .....Δ 12.99
4010 Mega 1 AC/DC quick charger .....Δ 18.99
4046 Vision Peak Plus AC/DC peak charger Δ 49.99

## ECG (ECG)

U-105 Light duty antenna rotor/3-wire ..... $ 69.99
U-106 Light duty ant rotor/presets/IR rem/3-wire 89.99
TB-105 Thrust bearing for U-105/U-106 ... 18.99

AES Price

## ESP (ESP)

ESP-1 Microphone audio processor ..... $225.99

## EASY-UP (UPS OK) (EAS)

EZ 5-16 5' 16 ga steel mast .....pick-up only 12.99
EZ 29-24S Stainless double strap chimney mt 22.99
EZ 30-24 Dlx wall mt w/extra 3rd leg support 29.99
EZ 31 Heavy duty adjustable eave mount ..... 29.99
EZ 48-3ABX 3' boxed tripod w/pitch pad kit . 39.99
EZ 48-5ABX 5' boxed tripod w/pitch pad kit . 59.99

## ELK Antennas (ELK)

2M/440-L5 2m/440 5el quick assembly LP beam $ 89.99
220-L6 220 6el quick assembly LP beam ..... 81.99
440-L8 440 8el quick assembly LP beam ..... 81.99
Elk Bag Canvas carrying bag for Elk antenna ... 24.99

## EMERSON (EME)

EVO-6550 2nd 900MHz camera; EVO-6500 D $ 9.99
RP-005 6-func flashing safety strobe/reflector Δ 4.99

## EXCALIBUR (EXC)

908 Talking electronic chess computer ..... $ 59.99
H-422 Large Forever Flashlight (clear case) . 29.99
H-423 Small Forever Flashlight (clear case) . 24.99

## GE (GEX)

72887 Super Radio III AM/FM radio, AC/DC .. $ 54.99

## GAP VERTICALS (GAP)

DX-VIII Challenger 75*/40/20/15/12/10/6/2m 31.5' $299.99
*80m CW w/capacitor exchange from GAP
Challenger Counterpoise ..... 32.99
(SYN) 100' ⅜" black double braided rope .. 7.99
DX-VI Eagle 40/20/17/15/12/10m 21' rigid .. 329.99
DX-IV Voyager 160/80/40/20m 45'; use 350' guy 439.99
Voyager Counterpoise ..... 64.99
(SYN) 350' ⅜" black double braided rope .. 44.99
Titan DX 75*/40/30/20/17/15/12/10m, 25' .. 359.99
*80m CW w/capacitor exchange from GAP
100' Guy Kit with clamp ..... 15.99
200' Guy Kit with clamp ..... 23.99
Ground Mount Quick tilt mt for vertical ant . 79.99
Ladder Mount Quick tilt mt; campers/RVs .... 79.99
Hear It DSP noise eliminating speaker ..... 159.99
In Line Module Hear It in line module noise elim 199.99

## GARMIN (GAR)

Geko-101 Small GPS receiver ..... $ 99.99
Geko-201 Small GPS receiver w/WAAS ..... 139.99
GPS-12XL GPS receiver ..... 219.99
GPS-72 Handheld track-plotter GPS ..... 149.99
GA-27C Low prof rem ant/cbl; GPS-12CX/XL 89.99
010-10048-00 Mounting bracket; 12CX/XL . 29.99
010-10082-00 Power/data cable ..... 27.99
010-10085-00 Cig lighter adapter cable ... 23.99
010-10117-01 Carying case .....D 2.99
010-10117-02 Carying case ..... 12.99
010-10121-00 MCX-BNC adapt cbl; 12CX/XL 25.99
010-10141-00 PC interface cable ..... 38.99
010-10165-00 PC cable w/cig adapter ..... 45.99
GPS-60 GPS w/1MB internal memory ..... 179.99
GPS-MAP60 GPS w/24MB internal memory ... 299.99
010-10117-02 Carying case ..... 12.99
010-10111-00 Mtg bracket; GPS-III Plus ...Δ 6.99
010-10199-03 Carrying case; Street Pilot ..D 2.99
010-10232-00 Carrying case; Street Pilot ..D 2.99
StreetPilot III Deluxe GPS .....D 599.99
GA-26C Low prof remote ant w/cable/BNC 89.99
010-10141-00 PC interface cable ..... 38.99
010-10165-00 PC cable w/cig adapter ..... 45.99
010-10227-00 Blank 8MB mem cartridge D 19.99

## Garmin - continued

| | AES Price |
|---|---|
| **StreetPilot 2610** Deluxe GPS | 699.99 |
| **GA-27C** Low profile remote ant/cable/MCX | 89.99 |
| **StreetPilot C330** Deluxe GPS w/software | 599.99 |
| **GA-27C** Low profile remote ant/cable/MCX | 89.99 |
| **eTREX** 12 ch mini GPS receiver | 99.99 |
| **eTREX Summit** 12ch mini GPS/compass/barometric | 179.99 |
| **010-10203-00** Cig lighter cbl; eMAP & eTREX | 39.99 |
| **010-10205-00** Data cable; eMAP & eTREX | 22.99 |
| **010-10206-00** PC interface cbl; eMAP & eTREX | 38.99 |
| **eTREX Vista C** Mini color GPS D | 249.99 |
| **GPS-V Deluxe** Turn-by-turn navigation GPS/soft D | 299.99 |
| **GA-26C** Low prof remote ant w/cable/BNC | 89.99 |
| **010-10082-00** Power/data cable | 27.99 |
| **010-10117-01** Carying case D | 2.99 |
| **010-10117-02** Carying case | 12.99 |
| **010-10165-00** PC cable w/cig adapter | 45.99 |
| **010-10468-00** MapSource MetroGuide CD Δ | 99.99 |
| **cfQue-1620** GPS module for Pocket PC's | 249.99 |
| **Foretrex 101** Wrist GPS | 129.99 |
| **Forerunner 201** Wrist GPS/personal trainer | 149.99 |
| **GPS-18PC Dlx** GPS sensor for laptop/serial/mag/soft | 129.99 |
| **GPS-18USB Dlx** GPS sensor for laptop/USB/mag/soft | 129.99 |
| **iQue-3600** Handheld PDA w/integrated GPS | 499.99 |
| **GA-27C** Low prof remote ant/cbl; iQue-3600 | 89.99 |
| **iQue-M5** Pocket PC integrated with GPS | 699.99 |
| **Rino-120** GPS/FRS/GMRS w/8mb mem/basemap | 249.99 |
| **010-10117-02** Carying case; Rino-120 | 12.99 |

## GEAR KEEPER (GEA)

| | |
|---|---|
| **RT2-4012** Hvy duty Mic Keeper w/snap clip | $ 19.99 |
| **RT3-4653** Locking HT Gear Keeper/swivel belt clip | 26.99 |

## GLEN MARTIN (GME)

### TOWERS

| | |
|---|---|
| **M-1330A** 30' alum tower package w/Hazer .T | 1711.99 |
| **M-1340A** 40' alum tower package w/Hazer .T | 1941.99 |
| **M-1350A** 50' alum tower package w/Hazer .T | 2194.99 |
| **M-1840A** 40' alum tower package w/Hazer .T | 2278.99 |
| **M-1850A** 50' alum tower package w/Hazer T | 2554.99 |
| **M-1860A** 60' alum twr pack w/Voyager Hazer T | 3557.99 |
| **M-1870A** 70' alum twr pack w/Voyager Hazer T | 3879.99 |
| **ML-1800** Messenger line kit for GME towers | 77.99 |
| **KB-1000** 57" side arm; M-13 series | 86.99 |
| **KB-1300** 57" side arm; M-18 series | 90.99 |
| **M-22** 10' galv steel M-22 tower section | 457.99 |
| **CHB-22** Footing assembly for M-22 | 276.99 |
| **B-22** Leveling base for M-22 | 402.99 |

### ROOF-TOP TOWERS

| | |
|---|---|
| **RT-424** 4.5' roof-top tower, anodized aluminum | $173.99 |
| **RT-832** 8' roof-top tower, anodized aluminum | 257.99 |
| **RT-936** 9' roof-top tower, anodized aluminum | 420.99 |
| **RT-1832** 17.5' roof-top tower, anodized aluminum | 563.99 |
| **RT-2632** 26' roof-top tower, anodized aluminum | 932.99 |
| **LB-3755** Lag bolts, set of 8 ⅜ x 5" | 10.99 |
| **MC-10** Mast clamp; aluminum, 2 required | 26.99 |
| **EL-3744** Concrete L-bolts, set of 8 | 15.99 |
| **RA-6024** 24" side arm for roof towers | 44.99 |
| **RA-6048** 48" side arm for roof towers | 58.99 |

### HAZERS FOR ROHN TOWERS

| | |
|---|---|
| **H-2** Heavy duty aluminum Hazer system | $382.99 |
| **H-3** Standard duty aluminum Hazer system | 290.99 |
| **H-4** Heavy duty galv steel Hazer system | 369.99 |
| **BW-8001** Brake winch for H-2/3/4 | 85.99 |
| **HR-2040** Roller bearing set for Hazers | 68.99 |
| **HR-6010** T'X plates for H-2/3/4/5 | 28.99 |
| **HS-1301** Side arm for Hazers | 68.99 |
| **ML-2500** Messenger line kit for Rohn towers | 81.99 |
| **VH8-60** Voyager Hazer for 60' Rohn 45G | 1494.99 |
| **VH8-70** Voyager Hazer for 70' Rohn 45G | 1637.99 |
| **VH9-50** Voyager Hazer for 50' Rohn 55G | 1409.99 |
| **VH9-60** Voyager Hazer for 60' Rohn 55G | 1536.99 |
| **VH9-70** Voyager Hazer for 70' Rohn 55G | 1658.99 |

## Glen Martin - continued

### LIGHTNING PROTECTION

| | AES Price |
|---|---|
| **LR-8400** Premium lightning rod kit | $105.99 |
| **GR-4400** Ground rod wire clamp | 7.99 |
| **GR-5080** 8' x ⅝" ground rod | 22.99 |
| **TL-0470** Terminal lug | 3.19 |
| **LR-8418** Lightning rod point, 18" long | 41.99 |
| **LR-8452** Clamp for holding rod to 2" mast | 27.99 |
| **LR-8451** Clamp for holding rod to 1⅝" mast | 26.99 |

### GUYING

| | |
|---|---|
| **WR-125** ⅛" galv 7 x 7 guy cable ...per ft. | $ .59 |
| **WR-380** ⅜" galv 7 x 7 guy cable ...per ft. | .79 |
| **WRS-156** 5/32" stainless 7 x 19 guy cable per ft. | .89 |
| **WRS-187** 3/16" stainless 7 x 19 guy cable per ft. | .99 |
| **WRS-250** ¼" stainless 7 x 19 guy cable per ft. | 1.09 |
| **WR-1862** 3/16" U-bolt clip | 1.79 |
| **WR-2565** ¼" U-bolt clip | 1.79 |
| **WR-3164** 5/16" U-bolt clip | 2.19 |
| **PT-2500** ¼" heavy duty thimble | 2.89 |
| **PT-3100** 5/16" heavy duty thimble | 3.19 |
| **PT-3700** ⅜" heavy duty thimble | 3.59 |
| **H-165** ¼" end cap | .89 |
| **H-164** 5/16" end cap | .99 |
| **H-142** ⅜" end cap | 1.09 |
| **RG-4010** ¼" link connecting earthscrew to turnbuckle | 9.99 |
| **ES-40** 4" dia x 30" earth screw | 24.99 |
| **EG-40** 4" dia x 30" galvanized earth screw | 36.99 |
| **ES-60** 6" dia x 48" earth screw | 42.99 |
| **EG-60** 6" dia x 48" galvanized earth screw | 59.99 |
| **ES-80** 8" dia x 66" earth screw | 73.99 |
| **TB-3806** ⅜" x 6" galvanized turnbuckle | 20.99 |
| **TB-5009** ½" x 9" galvanized turnbuckle | 26.99 |
| **TB-6212** ⅝" x 12" galvanized turnbuckle | 44.99 |

### MASTS

| | |
|---|---|
| **M-1049** 9' x 2" OD heavy duty galv steel mast | $ 84.99 |
| **M-1040** 10' x 2" OD heavy duty galv steel mast T | 90.99 |
| **MA-1040** 10' x 1.92" OD medium duty alum mast T | 100.99 |
| **MA-1049** 9' x 1.92" OD medium duty alum mast | 95.99 |
| **MA-2069** 9' x 2.375" OD heavy duty alum mast | 105.99 |
| **MA-1050** 5' x 1.92" OD medium duty alum mast | 65.99 |
| **MA-5050** 5' x 1.31" OD light duty alum mast | 44.99 |
| **MP-1409** 9' x 2" OD .250 wall xtra HD fg mast | 129.99 |
| **MP-1809** 9' x 2" OD .125 wall med dty fg mast | 76.99 |

### SIDE ARMS

| | |
|---|---|
| **HS-2500** 36" universal side arm mount | $ 69.99 |
| **HS-6000** 52" universal side arm mount | 83.99 |

### WINCHES

| | |
|---|---|
| **B-800** 800 lb capacity w/4.5:1 gear ratio | $ 77.99 |
| **W-1100** 1100 lb capacity w/3.9:1 gear ratio | 45.99 |
| **B-2000** 2000 lb capacity w/17:1 gear ratio | 134.99 |
| **WA-1200** 4000 lb electric winch, 115 vac | 519.99 |
| **WD-1200** 4000 lb electric winch, 12 vdc | 475.99 |
| **W-6371** Pendant for 12 vdc | 189.99 |
| **W-6372** Pendant for 115 vac | 109.99 |

### TOWER CLIMBING EQUIPMENT

| | |
|---|---|
| **FP-5600** 2 d-ring full body climbing harness (S-M) | $ 89.99 |
| **FP-5601** 2 d-ring full body climbing harness (L-XL) | 89.99 |
| **FP-5602** 4 d-ring full body climbing harness (S-M) | 106.99 |
| **FP-5603** 4 d-ring full body climbing harness (L-XL) | 106.99 |
| **FP-6600** 6 d-ring full body climbing harness (XS) | 260.99 |
| **FP-6601** 6 d-ring full body climbing harness (S) | 236.99 |
| **FP-6602** 6 d-ring full body climbing harness (M) | 236.99 |
| **FP-6603** 6 d-ring full body climbing harness (L) | 236.99 |
| **FP-6604** 6 d-ring full body climbing harness (XL) | 236.99 |
| **FP-7600** AeroClimber 6 d-ring saddle harness (XS) | 231.99 |
| **FP-7601** AeroClimber 6 d-ring saddle harness (S) | 209.99 |
| **FP-7602** AeroClimber 6 d-ring saddle harness (M) | 209.99 |
| **FP-7603** AeroClimber 6 d-ring saddle harness (L) | 209.99 |
| **FP-7604** AeroClimber 6 d-ring saddle harness (XL) | 209.99 |
| **FP-2606** 1"x6' web lanyard/dbl locking snaphooks | 32.99 |
| **FP-2903** 1"x3' web lanyard, ¾" throat, snaphooks | 38.99 |

## Glen Martin - continued

| | AES Price |
|---|---|
| **FP-2904** 1"x4' web lanyard, ¾" throat, snaphooks | 39.99 |
| **FP-2905** 1"x5' web lanyard, ¾" throat, snaphooks | 39.99 |
| **FP-2906** 1"x6' web lanyard, ¾" throat, snaphooks | 40.99 |
| **FP-2913** 1"x3' web lanyard, ¾"&1⅛" throat openings | 63.99 |
| **FP-2914** 1"x4' web lanyard, ¾"&1⅛" throat openings | 64.99 |
| **FP-2915** 1"x5' web lanyard, ¾"&1⅛" throat openings | 64.99 |
| **FP-2916** 1"x6' web lanyard, ¾"&1⅛" throat openings | 65.99 |
| **FP-2923** 1"x3' web lanyard, ¾"&2½" throat openings | 69.99 |
| **FP-2924** 1"x4' web lanyard, ¾"&2½" throat openings | 70.99 |
| **FP-2925** 1"x5' web lanyard, ¾"&2½" throat openings | 70.99 |
| **FP-2926** 1"x6' web lanyard, ¾"&2½" throat openings | 71.99 |

**All GLEN MARTIN orders are plus freight at Glen Martin's rates direct to you from the factory. There is also a $75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand.**

## GROTHE (GRO)

| | |
|---|---|
| **VS-2** Emergency vehicle siren | $ 89.99 |
| **VS-2LS/A** Window mt siren/amber halogen spec ord | 299.99 |
| **VS-2LS/B** Window mt siren/blue halogen spec ord | 299.99 |
| **VS-2LS/R** Window mt siren/red halogen spec ord | 299.99 |
| **VS-3** Volunteer vehicle PA/horn w/spkr | 129.99 |
| **VS-4** P/A emergency vehicle siren w/spkr | 139.99 |

## GRUNDIG/ETON (GRU)

| | |
|---|---|
| **e-Zone** FM receiver D | $ 2.99 |
| **E-1** Portable AM/FM/SW/XM* ready rcvr/ps | 499.99 |
| *Subscription & ant required for XM satellite radio | |
| (AUD) **CNP-1000** Integrated XM tuner/ant | 49.99 |
| **E-5** Portable AM/FM/SW receiver w/ps | 149.99 |
| **E-10** Portable AM/FM/SW receiver w/ps | 129.99 |
| **E-100** Portable AM/FM/SW receiver | 99.99 |
| **FR-100** AM/FM/clock/emergency light D | 24.99 |
| **FR-200** AM/FM/SW/flashlight/crank | 39.99 |
| **FR-250** AM/FM/SW/flashlight/crank/cell cgr | 49.99 |
| **FR-300** AM/FM/WX/TV sound/flashlight/cell cgr | 49.99 |
| **G-2000A** Porsche design AM/FM/SW receiver | 79.99 |
| **MiniWorld 100**PE Mini AM/FM/SW receiver D | 29.99 |
| **S-350** Portable AM/FM/SW receiver w/ps D | 79.99 |
| **S-350DL** Black portable AM/FM/SW receiver w/ps | 99.99 |
| **Yacht Boy 550** Port AM/FM/SW receiver w/ps | 79.99 |

## HAL (HAL)

| | |
|---|---|
| **DXP-38** External DSP HF radio modem | $395.99 |
| **RTTY-1** RTTY tuning indicator | 99.99 |

## HARGER (HRG)

| | |
|---|---|
| **GBIS18114AE** ⅛" copper entrance ground bar kit | $ 39.99 |
| **GBIS18148AE** ⅛" copper station ground bar kit | 72.99 |
| **GEL3AE** Package of 5 HD grounding lugs | 21.99 |
| **GP1868.78AE** ⅛" copper single pt gnd panel kit | 66.99 |
| **GBX976AE** NEMA-4x weatherproof enclosure | 114.99 |

## HEIL (HEI)

| | |
|---|---|
| **BM-5-4** Boom mic/single headset (HC-4) | $ 74.99 |
| **BM-5-5** Boom mic/single headset (HC-5) | 74.99 |
| **BM-5-iC** Boom mic/single headset/adapter; Icom | 94.99 |
| **BM-10-4** Boom mic/headset (HC-4) | 99.99 |
| **BM-10-5** Boom mic/headset (HC-5) | 99.99 |
| **BM-10-iC** Boom mic/headset/adapter; Icom | 119.99 |
| **BAG-2** Leatherette travel bag for BM-10 | 20.99 |
| **PRO-SET-4** Deluxe boom mic/headset (HC-4) | 135.99 |
| **PRO-SET-5** Deluxe boom mic/headset (HC-5) | 135.99 |
| **PRO-SET-iC** Dlx boom mic/headset/adapter; Icom | 147.99 |
| **PRO-SET-PLUS** Dlx boom mic/headset (HC4&5) | 210.99 |
| **PRO-SET-PLUS-iC** Dlx bm mic/hdset (HC4&5); Ico | 227.99 |
| **PSQP-4** Pro-Set Quiet Phone 4 boom mic/headph | 225.99 |
| **PSQP-5** Pro-Set Quiet Phone 5 boom mic/headph | 225.99 |


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## Heil - continued

| | AES Price |
|---|---|
| **PSQP-iC** Pro-Set Quiet Phone;Icom bm mic/headph | 242.99 |
| **AD-1-I** Pro-Set 8-pin adapter cord for Icom | 20.99 |
| **AD-1-ICM**/AD-1IM ProSet mod adapt cord; Ico | 20.99 |
| **AD-1-K** Pro-Set 8-pin adapt cord; Kenwood | 20.99 |
| **AD-1-K-M** Pro-Set modular adapt cord; Ken | 20.99 |
| **AD-1-T** Pro-Set 4-pin adapt cord; Ten-Tec | 20.99 |
| **AD-1-Y** Pro-Set 8-pin adapter cord; Yaesu | 20.99 |
| **AD-1-Y-M** Pro-Set modular adapt cord; Yae | 20.99 |
| **HTSS** Single side Traveler headset | 71.99 |
| **HTDS** Dual side Traveler headset | 91.99 |
| **HTA-IHT** Traveler adapter for Icom HT | 23.99 |
| **HTA-KHT** Traveler adapter for Kenwood HT | 23.99 |
| **HTA-VX** Traveler adapter; Yaesu VX HT (not VX7) | 23.99 |
| **HSTA-706** Traveler adapter; Icom IC-703/706 | 23.99 |
| **HSTA-IC8** Traveler adapter for Icom 8-pin | 23.99 |
| **HSTA-K8** Traveler adapter for Kenwood 8-pin | 23.99 |
| **HSTA-KM** Traveler adapter; Kenwood modular | 23.99 |
| **HSTA-YM** Traveler adapter for Yaesu modular | 23.99 |
| **GM-4** Goldline dual element studio mic w/HC-4 | 145.99 |
| **GM-5** Goldline dual element studio mic w/HC-5 | 145.99 |
| **GM-V** Goldline vintage studio mic/matching xfmr | 145.99 |
| **HCL-4** Classic 1930's desk mic/studio el & HC-4 | 240.99 |
| **HCL-5** Classic 1930's desk mic/studio el & HC-5 | 240.99 |
| **HM-10-4** Microphone with HC-4 element | 80.99 |
| **HM-10-5** Microphone with HC-5 element | 80.99 |
| **HM-10-Dual** Mic w/HC-4 & HC-5 elements | 128.99 |
| **ICM** Pre-PRO Icom electret mic w/cable | 95.99 |
| **CC-1-C** 3/16" plug cable for Collins/Drake | 40.99 |
| **CC-1-D** 4-pin cable for Drake D | 19.99 |
| **CC-1-I** 8-pin cable for Icom | 35.99 |
| **CC-1-I-M** Modular cable for Icom | 35.99 |
| **CC-1-K** 8-pin cable for Kenwood | 35.99 |
| **CC-1-K-M** Modular cable for Kenwood | 35.99 |
| **CC-1-T** Cable for Ten-Tec | 35.99 |
| **CC-1-Y** 8-pin cable for Yaesu | 35.99 |
| **CC-1-Y-M** Modular cable for Yaesu | 35.99 |
| **HSTA-706** Adapt; HM-I - Ico 706/703/modular | 23.99 |
| **PL-2T** Topless proline boom | 89.99 |
| **DT-1** Desk top flush mount | 31.99 |
| **FL-1**/FL-2 Flange mount for PL-2T | 25.99 |
| **RS-1** Riser 12" flange mount for PL-2T | 25.99 |
| **SB-2** Small adjustable mic boom | 42.99 |
| **HM-4** Handi-Mic hand microphone w/HC-4 | 80.99 |
| **HM-5** Handi-Mic hand microphone w/HC-5 | 80.99 |
| **HM-iC** Handi-Mic hand mic/electret element; Ico | 80.99 |
| **HM-PRO** Handi-Mic hand mic/broadcast element | 80.99 |
| **CH-1-I** 8-pin coiled cable for Icom | 23.99 |
| **CH-1-I-M** Modular coiled cable for Icom | 23.99 |
| **CH-1-K** 8-pin coiled cable for Kenwood | 23.99 |
| **CH-1-K-M** Modular coiled cable for Kenwood | 23.99 |
| **CH-1-Y-M** Modular coiled cable for Yaesu | 23.99 |
| **PR-20** Cardioid dynamic studio microphone | 125.99 |
| **PR-40** Broadcast & recording studio microphone | 269.99 |
| **CC-1-XLR-I** 3-pin XLR to 8-pin Icom cable | 35.99 |
| **CC-1-XLR-K** 3-pin XLR to 8-pin Kenwood cable | 35.99 |
| **CC-1-XLR-Y** 3-pin XLR to 8-pin Yaesu cable | 35.99 |
| **WSPR-40** Windscreen for PR-40 | 17.99 |
| **PR-780** Dynamic cardiod studio mic; IC-7800 | 330.99 |
| **WSPR-40** Windscreen | 17.99 |
| **HQP** Quiet Phone Noise cancelling headphones | 99.99 |
| **BAG-2** Leatherette travel bag for HQP | 20.99 |
| **AD-100** Mic/boomset adapt; FT-100/AD-1Y/CC-1Y | 20.99 |
| **Boom Clip** for BM-series | 5.99 |
| **CB-1** Classic base | 58.99 |
| **CB-1-PTT** Classic base w/soft PTT switch | 69.99 |
| **Ear Pads** for **PRO**-series pair | 6.99 |
| **FS-2** Dual switch foot switch | 38.99 |
| **Ham Radio Handbook** | 10.00 |
| **HC-4** DX'ers 'dream machine' mic element | 45.99 |
| **HC-5** Full-range microphone element | 45.99 |
| **HD-AT** 6db headph attenuator, ⅛"m-¼"f adapt | 6.99 |

## Heil - continued

| | AES Price |
|---|---|
| **HS-2** Magnum ergonomic hand switch | 29.99 |
| **SM-1** Shock mount for any microphone boom | 50.99 |
| **TM-1** Tri-mount microphone adapter | 14.99 |
| **XT-1** Audio matching xfmr; lo-Z mic/tube Xcvr | 15.99 |

## HIGH SIERRA (HIS)

| | |
|---|---|
| **Platinum Pack** 3.5-60MHz mobile ant w/6' whip | $495.00 |
| **HS-120** Capacity hat | 50.00 |
| **HS-202CL** 2" rcvr lay back adapter; univ mtg bkt | 100.00 |
| **HS-214CL** 1¼" rcvr lay back adapt; univ mtg bkt | 100.00 |
| **i-Box 7000** Box for IC-7000 | 110.00 |
| **Sidekick** 3.5-60MHz mobile ant w/3' whip | 375.00 |
| **Hitchin Post** 3/8-24 trailer hitch mount | 40.00 |
| **i-Box 7000** Box for IC-7000 | 110.00 |
| **Stake Hole Mt** SO-239 to 3/8-24 mount | 27.00 |
| **Sidekick** w/**i-box**/i-tenna 3.5-60 mob/3' whip; Ico | 425.00 |
| **Hitchin Post** 3/8-24 trailer hitch mount | 40.00 |
| **Stake Hole Mt** SO-239 to 3/8-24 mount | 27.00 |
| **Tripod Deluxe** 6' tripod/3/8-24/SO239/8 radials | 100.00 |

## HobbyZone (HBZ)

| | |
|---|---|
| **1011** 6v 600mah NiMH battery Δ | $ 9.99 |
| **4500** Firebird Outlaw RTF electric red airplane Δ | 39.99 |
| **4505** Firebird Outlaw RTF electric green airplane Δ | 39.99 |
| **1026** DC peak charger Δ | 14.99 |
| **2500** Firebird Commander RTF electric airplane D | 59.99 |
| **3500** Aerobird Challenger RTF electric airplane Δ | 89.99 |
| **1012** 7.2v 900mah NiMH;2500/3500/4000 Δ | 12.99 |
| **1013** 8.4v 900mah NiMH;2500/3500/4000 Δ | 13.99 |
| **1026** DC peak charger Δ | 10.99 |
| **2015** 3-hr wall charger for 4000 Δ | 4.99 |
| **4020** Sonic combat module; 2500 Δ | 12.99 |
| **4025** Stealth target/combat module; *2500/4000 Δ | 6.99 |
| *Requires 4020 w/model 2500 | |
| **6023** Aerial drop module; 2500/4000 Δ | 10.99 |
| **7800** Sky Surfer RTF electric airplane Δ | 169.99 |
| **1026** DC peak charger Δ | 10.99 |
| **7809** 7.2v 1100mah battery for 7800 Δ | 16.99 |

## HUSTLER (HUS)

| | |
|---|---|
| **RM-80** 80m CW 400w PEP resonator | $ 28.99 |
| **RM-75** 75m phone 400w PEP resonator | 28.99 |
| **RM-60** 60m phone 400w PEP resonator | 28.99 |
| **RM-40** 40m 400w PEP resonator | 26.99 |
| **RM-30** 30m 400w PEP resonator | 26.99 |
| **RM-20** 20m 400w PEP resonator | 23.99 |
| **RM-17** 17m 400w PEP resonator | 23.99 |
| **RM-15** 15m 400w PEP resonator | 16.99 |
| **RM-12** 12m 400w PEP resonator | 16.99 |
| **RM-11** CB 400w PEP resonator | 16.99 |
| **RM-10** 10m 400w PEP resonator | 16.99 |
| **RM-80S** 80m CW 2kw PEP resonator | 53.99 |
| **RM-75S** 75m phone 2kw PEP resonator | 53.99 |
| **RM-40S** 40m 2kw PEP resonator | 38.99 |
| **RM-20S** 20m 2kw PEP resonator | 30.99 |
| **RM-15S** 15m 2kw PEP resonator | 26.99 |
| **RM-11S** CB 2kw PEP resonator | 25.99 |
| **RM-10S** 10m 2kw PEP resonator | 25.99 |
| **MO-1** 54" mast for fender or deck mount | 33.99 |
| **MO-2** 54" mast for bumper mount | 33.99 |
| **MO-3** 54" no break-over mast | 25.99 |
| **MO-4** 22" mast for special applications | 21.99 |
| **VP-1** Tri-band adapter | 6.99 |
| **RSS-2** Resonator spring | 12.99 |
| **QD-2** Stainless quick disconnect | 21.99 |
| **L-14-144** 12' RG-58, PL-259 to lugs | 9.99 |
| **L-14-240** 20' RG-58, PL-259 to lugs | 12.99 |

### STAINLESS 2" MOBILE BALL MOUNTS

| | |
|---|---|
| **SSM-1** Ball & spring, cadmium hardware | $ 49.99 |
| **SSM-2** Ball, cadmium hardware | 28.99 |
| **SSM-3** Stainless steel spring | 26.99 |

## Hustler - continued

| | AES Price |
|---|---|
| **1-1/2" MOBILE BALL MOUNTS** | |
| **C-32** Chrome plated ball | $ 12.99 |
| **C-30** Chrome plated spring | 12.99 |
| **C-29** Stainless steel spring | 19.99 |
| **BM-1** Single strap bumper mt w/C-32 | 23.99 |
| **3/8-24 THREAD MOBILE MOUNTS** | |
| **HLM** Trunk lip mount w/swivel | $ 24.99 |
| **HOT** Hustloff trunk lip mt w/swivel | 25.99 |
| **MBM** Super magnet mount w/16' coax | 21.99 |
| **RVM** Recreational vehicle mount | 22.99 |
| **TLM** Trunk lip mount | 23.99 |
| **HF ANTENNAS** | |
| **4-BTV** 40/20/15/10m 21' trap vertical | $139.99 |
| **5-BTV** 80/40/20/15/10m 25' trap vertical | 169.99 |
| **30-MTK** 30m trap kit for 4-BTV/5-BTV | 45.99 |
| **6-BTV** 80/40/30/20/15/10m 24' trap vert | 189.99 |
| **VHF/UHF BASE STATION ANTENNAS** | |
| **G3-144** 2m 3db 7.5' vertical antenna | $ 70.99 |
| **G6-144B** 2m 6db 10' vertical antenna | 129.99 |
| **G6-270R** 2m/440 6db 7.6' base station ant | 189.99 |
| **G7-144** 2m 7db 15' vertical antenna | 189.99 |
| **G7-220** 220 MHz 7db 10' vertical antenna | 159.99 |
| **G6-440** 440 MHz 6db 7' vertical antenna | 169.99 |
| **VHF/UHF MOBILE ANTENNAS** | |
| **BBG-144** 2m 3.4db NMO coil/whip only | $ 39.99 |
| **BBGT-144** 2m 3.4db NMO trunk lip mt ant | 49.99 |
| **BBG-440-5** 440 5db NMO coil/whip only | 39.99 |
| **BBGT-440-5** 440 5db NMO trunk lip mt ant | 49.99 |
| **BBL-144A** 2m ¾" hole mt antenna, 3.4db D | 19.99 |
| **BBLT-144A** 2m trunk lip mt ant, 3.4db D | 24.99 |
| **CG-144** 2m ⅜-24 ant, 7' high, 5.2db | 34.99 |
| **CGT-144** 2m trunk mt ant, 7' high, 5.2db | 55.99 |
| **CG-220** 220 MHz ⅜-24 ant, 5.2db | 34.99 |
| **CGT-220** 220 trunk mt ant, 5.2db | 55.99 |
| **LMB-144** 2m 3.4db black NMO coil/whip only | 22.99 |
| **LMB-440-5** 440 5db black NMO coil/whip only | 19.99 |
| **LMC-144** 2m 3.4db NMO coil/whip only | 23.99 |
| **LMC-270** 2m/440 2.4/4db NMO coil/whip only | 31.99 |
| **LMC-440-5** 440 5db NMO coil/whip only | 19.99 |
| **LMG-144** 2m 3.4db NMO pushpin coil/whip only | 25.99 |
| **LMG-440-5** 440 5db NMO pushpin coil/whip only | 19.99 |
| **MKR-2** Radial kit for CG/RX/SF-antennas | 22.99 |
| **MX-2** 2m 3.4db black & chrome NMO mag ant | 34.99 |
| **MX-2B** 2m 3.4db all black NMO mag mt ant | 39.99 |
| **MX-220** 220 3.4db blk & chrome NMO mag ant | 34.99 |
| **MX-270** 2m/440 2.4/4db chrome NMO mag mt ant | 59.99 |
| **MX-440** 440 5db blk & chrome NMO mag mt ant | 36.99 |
| **MX-440B** 440 5db all black NMO mag mt ant | 39.99 |
| **RX-2** 2m 3.4db magnetic mount ant | 26.99 |
| **RX-220** 220 3.4db magnetic mt antenna | 26.99 |
| **RX-440** 440 5db magnetic mt antenna | 26.99 |
| **SF-2** 2m ⅜-24 ant, 4' high, 3.4 db | 16.99 |
| **SF-220** 220 MHz ⅜-24 antenna, 3.4 db | 16.99 |
| **THF** 140-500 MHz ¼ wave trunk mount ant | 24.99 |
| **UGM** 140-500 MHz ¼ wave BNC mag mt ant | 23.99 |
| **UHT-1** 140-500 MHz ¼ wave roof mt ant | 15.99 |
| **CB & MONITOR ANTENNAS** | |
| **1C-11** White trunk mount CB antenna | $ 13.99 |
| **1C-11B** Black trunk mt CB antenna | 13.99 |
| **1C-56** 102" stainless whip pick-up only | 19.99 |
| **1C-100** White magnetic mount CB antenna | 19.99 |
| **1C-100B** Black magnetic mt CB antenna | 19.99 |
| **DTG** 25" fg double-talk gutter mt CB ant Δ | 19.99 |
| **FG-27S** 48" CB whip | 11.99 |
| **HQ-27** Power Packer ⅜-24 CB whip | 17.99 |
| **HQ-27M** Power Packer trunk mt CB antenna | 36.99 |
| **HQD** Dual fg mirror mount CB antenna | 49.99 |
| **HQT** Single fg mirror mount CB antenna | 27.99 |
| **RQM** Magnetic mount CB antenna | 19.99 |
| **RTG-27L** 25" CB antenna w/rain gutter mt | 26.99 |

## Hustler - continued

| | AES Price |
|---|---|
| **RTM** 25" magnetic mount CB antenna | 16.99 |
| **RTS-27L** 25" CB antenna w/roof mount | 26.99 |
| **SCB/BLK** 46" black CB whip | 29.99 |
| **SCB/BLU** 46" blue CB whip Δ | 19.99 |
| **SCB/RED** 46" red CB whip | 29.99 |
| **SCB/WHT** 46" white CB whip | 29.99 |
| **SCB-S/BLK** 35" black CB whip | 29.99 |
| **SCB-S/RED** 35" red CB whip | 29.99 |
| **SCB-S/WHT** 35" white CB whip | 29.99 |
| **DCL-B** Discone monitor ant/50' coax/BNC plug | 37.99 |
| **DCX** Discone monitor ant; 40-700 MHz | 25.99 |
| **MOR-B** Roof/deck mt tri-band BNC monitor ant | 20.99 |
| **MOT-B** Trunk lip mt tri-band BNC monitor ant | 21.99 |
| **MRM-B** Magnet mt tri-band BNC monitor ant | 21.99 |

## HY-GAIN (HYG)

### HF BEAM ANTENNAS

| | |
|---|---|
| **LJ-103BA** 3el 7.9db 8' boom 10m beam | $159.99 |
| **LJ-105CA** 5el 10.8db 24' boom 10m beam | 289.99 |
| **LJ-153BA** 3el 7.9db 12' boom 15m beam | 209.99 |
| **LJ-204BA** 4el 8.2db 26' boom 20 or 17m beam | 539.99 |
| **TH-3JRS** 3el 600w PEP 20/15/10m beam | 359.99 |
| **TH-3MK4** 3el 8db 14' boom 20/15/10m beam | 469.99 |
| **TH-5MK2** 5el 8.3db 19' boom 20/15/10m beam | 699.99 |
| **TH-7DX** 7el 8.77db 24' boom 20/15/10m beam | 799.99 |
| **BN-86** 3-30MHz balun for HF beam | 79.99 |

### MULTI-BAND HF VERTICAL ANTENNAS

| | |
|---|---|
| **AV-14AVQ** 40/20/15/10m 18' vertical ant | $169.99 |
| **AV-18AVQ II** 80/40/20/15/10m vertical ant | 229.99 |
| **AV-18HT** HyTower 80/40/20/15/10m 53' vert T* | 849.99 |

***AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.**

| | |
|---|---|
| **AV-18HT-JR** HyTower Jr 40/20/15/10m 39' vert | 349.99 |
| **AV-620** 20/17/15/12/10/6m 22.5' vertical | 289.99 |
| **AV-640** 40/30/20/17/15/12/10/6m 25.5' vert | 389.99 |
| **DX-88** 80/40/30/20/17/15/12/10m 25' vert | 369.99 |

### VHF/UHF ANTENNAS

| | |
|---|---|
| **DB-218SAT** VHF/UHF Oscar Link system | $529.99 |
| **VB-25FM** 5el 11.2db 75" boom 2m beam | 59.99 |
| **VB-64DX** 4el 10.4db 12' boom 6m beam | 144.99 |

### ANTENNA ROTORS

| | |
|---|---|
| **AR-40** 3 sq ft antenna rotor/5-wire | $289.99 |
| **CD-45-II** 8.5 sq ft antenna rotor/8-wire | 389.99 |
| **HAM-IV** 15 sq ft antenna rotor/8-wire | 539.99 |
| **HAM-V** Digital 15 sq ft antenna rotor/8-wire | 899.99 |
| **HDR-300A** Hvy duty dig 25 sq ft rotor/8-wire | 1379.99 |
| **T-2X** Tailtwister 20 sq ft antenna rotor/8-wire | 619.99 |
| **T-2XD** Tailtwister dig 20 sq ft ant rotor/8-wire | 979.99 |

### OPTIONAL ACCESSORIES FOR ROTORS

| | |
|---|---|
| **DCU-1** Dig rotor control; CD-45/HAM-IV/T-2X | $649.99 |
| **MSHD** Lwr mast support; HAM-IV/V/T-2X/XD | 99.99 |
| **MSLD** Lower mast support; CD-45-II/AR-40 | 39.99 |
| **TSP-1** Tower spacer plate | 34.99 |

See BELDEN for rotor cable

## iBOTZ (IBO)

| | |
|---|---|
| **MR-1001** Soundtracker robot kit Δ | $ 19.99 |
| **MR-1002** Antoid robot kit Δ | 29.99 |

## IBS (IBS)

| | |
|---|---|
| **2006** 2006 Passport to Worldband Radio | $ 22.95 |

## ICC (ICC)

| | |
|---|---|
| **Nitelogger II** Automatic tape recorder activator | $ 69.99 |

## ICOM (ICO)

| | AES Price |
|---|---|
| **IC-7800** Dlx 200w HF+6m Xcvr/IF-DSP/tuner/ps | 10599.99 |
| **CT-17** CI-V level converter | 129.99 |
| **HM-36** Scanning hand mic | 74.99 |
| **SM-20** Deluxe desk microphone | 199.99 |
| **SP-20** Speaker w/audio filter | 239.99 |
| **SP-23** Speaker w/audio filter | 199.99 |
| **IC-756PRO III** Xcvr/6m/IF-DSP/tuner/keyer | 2999.99 |
| (BET) **I-Mate** Msg acc; 746PRO/756PRO II/III | 74.99 |
| **PS-125** 25A switching power supply | 299.99 |
| **AH-4** 80-6m 120w auto wire ant tuner | 259.99 |
| **AH-2B** Whip w/mt; 40-6m use tuner | 349.99 |
| **AH-2B** extra **whip only** | 179.99 |
| **CT-17** CI-V level converter | 129.99 |
| **HM-36** Scanning hand mic | 74.99 |
| **OPC-025D** Extra DC cable | 29.99 |
| **SM-6** Desk microphone | 99.99 |
| **SM-20** Deluxe desk microphone | 199.99 |
| **SP-20** Speaker w/audio filter | 239.99 |
| **SP-23** Speaker w/audio filter | 199.99 |
| **UT-102** Voice synthesizer | 74.99 |
| **IC-746PRO** Xcv/Rcv/6m/2m/IF-DSP/tuner/mic | *1549.99 |
| ***Price w/instant coupon; coupon expires 6/30/06** | |
| **PS-125 ps FREE with IC-746PRO! thru 6/30/06** | |
| (BET) **I-Mate** Msg acc; 746PRO/756PRO II/III | 74.99 |
| **PS-125** 25A switching power supply | 299.99 |
| **AH-4** 80-6m 120w auto wire ant tuner | 259.99 |
| **AH-2B** Whip w/mt; 40-6m use tuner | 349.99 |
| **AH-2B** extra **whip only** | 179.99 |
| **CR-338** High stability crystal unit | 81.99 |
| **CT-17** CI-V level converter | 129.99 |
| **HM-36** Scanning hand mic | 74.99 |
| **OPC-025D** Extra DC cable | 29.99 |
| **SM-6** Desk microphone | 99.99 |
| **SM-20** Deluxe desk microphone | 199.99 |
| **SP-20** Speaker w/audio filter | 239.99 |
| **SP-23** Speaker w/audio filter | 199.99 |
| **UT-102** Voice synthesizer | 74.99 |
| **IC-718** HF Xcvr/SW Rcvr/mic w/DSP | 599.99 |
| (BET) **706 Tune Control** for IC-718 | 32.99 |
| (W4R) **OBF-703/718-DIY** CW&SB Collins filts | 240.99 |
| **PS-125** 25A switching power supply | 299.99 |
| **AH-4** 80-6m 120w auto wire ant tuner | 259.99 |
| **AH-2B** Whip w/mt; 40-6m use tuner | 349.99 |
| **AH-2B** extra **whip only** | 179.99 |
| **AT-180** Auto coax antenna tuner; HF+6m | 369.99 |
| **OPC-598** 23' extension cable; AT-180 | D 69.99 |
| **CR-338** High stability crystal unit | 81.99 |
| **CT-17** CI-V level converter | 129.99 |
| **FL-52A** 500 Hz 455 KHz IF CW filter | 179.99 |
| **FL-53A** 250 Hz 455 KHz IF CW filter | 179.99 |
| **FL-222** 1.9 KHz 455 KHz IF SSB filter | 199.99 |
| **FL-257** 3.3 KHz 455 KHz IF SSB filter | 199.99 |
| Suggest dealer installation of filters in IC-718 | |
| **MB-5** Mobile mount | 59.99 |
| **MB-23** Side mount carrying handle | 15.99 |
| **OPC-025D** Extra DC cable | 29.99 |
| **OPC-599** 7+8-pin to 13-pin adapter | 60.99 |
| **SM-6** Desk microphone | 99.99 |
| **SM-20** Deluxe desk microphone | 199.99 |
| **SP-20** Speaker w/audio filter | 239.99 |
| **SP-23** Speaker w/audio filter | 199.99 |
| **UT-102** Voice synthesizer | 74.99 |
| **UT-106** Plug-in DSP unit | 139.99 |
| **IC-703 Plus** 10w mini HF+6m Xcvr/tuner/DSP | 699.99 |
| (W4R) **OBF-703/718-DIY** CW&SB Collins filts | 240.99 |
| **AH-4** 80-6m 120w auto wire ant tuner | 259.99 |
| **AH-2B** Whip w/mt; 40-6m use tuner | 349.99 |
| **AH-2B** extra **whip only** | 179.99 |
| **AH-703** 40/20/15/10/6m 20w 4.6' antenna | 199.99 |
| **BC-155A** Battery charger for BP-228 | 29.99 |

## Icom - continued

| | AES Price |
|---|---|
| **BP-228** 9.6v 2800mah external nicad pack | 89.99 |
| **CT-17** CI-V level converter | 129.99 |
| **FL-52A** 500 Hz 455 KHz IF CW filter | 179.99 |
| **FL-53A** 250 Hz 455 KHz IF CW filter | 179.99 |
| **FL-222** 1.9 KHz 455 KHz IF SSB filter | 199.99 |
| **FL-257** 3.3 KHz 455 KHz IF SSB filter | 199.99 |
| Suggest dealer installation of filters in IC-703 series | |
| **HM-154T** TTP microphone | 75.99 |
| **LC-156** Back pack carrying case | 99.99 |
| **MB-62** Mounting bracket for main unit | 25.99 |
| **MB-63** Mounting bracket for control panel | 18.99 |
| **MB-65** Mounting base platform | 35.99 |
| **MB-72** Carrying handle | 14.99 |
| **OPC-581** 11.5' separation cable | 60.99 |
| **OPC-587** 16' separation cable | 79.99 |
| **OPC-599** 7+8-pin to 13-pin adapter | 60.99 |
| **OPC-742** 13-pin cable | 60.99 |
| **OPC-1229** Extra DC cable | 28.99 |
| **OPC-1248** IC-703 to PS-125 cable | 14.99 |
| **RMK-706** Package; MB-62/MB-63/OPC-581 | 70.99 |
| **SM-6** Desk microphone | 99.99 |
| **SM-20** Deluxe desk microphone | 199.99 |
| **OPC-589** 8-pin to jack adapt; SM-6/8/20 | 35.99 |
| **SP-10** Slim-line external speaker | 69.99 |
| **UT-102** Voice synthesizer | 74.99 |
| **IC-706 Mk II-G** Mini HF Xcvr/6m/2m/440/DSP | 949.99 |
| **RMK-706 FREE with IC-706 Mk II-G! thru 6/30/06** | |
| (BET) **706 Tune Control** for IC-706 series | 32.99 |
| (W4R) **Antenna Boss II** interface;mot ant/IC706 | 149.99 |
| **PS-125** 25A switching power supply | 299.99 |
| **AH-4** 80-6m 120w auto wire ant tuner | 259.99 |
| **AH-2B** Whip w/mt; 40-6m use tuner | 349.99 |
| **AH-2B** extra **whip only** | 179.99 |
| **AT-180** Auto coax antenna tuner; HF+6m | 369.99 |
| **OPC-598** 23' extension cable; AT-180 | D 69.99 |
| **CR-282** High stability crystal unit; Mk II G | 149.99 |
| Suggest dealer install; CR-282, IC-706 Mk II-G | |
| **CT-17** CI-V level converter | 129.99 |
| **FL-100** 500 Hz 9 MHz IF CW filter | 119.99 |
| **FL-101** 250 Hz 9 MHz IF CW filter | 119.99 |
| **FL-103** 2.8 KHz 9 MHz IF SSB filter | 109.99 |
| **FL-223** 1.9 KHz 9 MHz IF SSB filter | 99.99 |
| **FL-232** 350 Hz 9 MHz IF CW/RTTY filter | 89.99 |
| **HM-154T** TTP microphone | 75.99 |
| **LC-156** Back pack carrying case | 99.99 |
| **MB-62** Mounting bracket for main unit | 25.99 |
| **MB-63** Mounting bracket for control panel | 18.99 |
| **MB-65** Mounting base platform | 35.99 |
| **MB-72** Carrying handle; Mk II-G only | 14.99 |
| **OPC-025D** Extra DC cable | 29.99 |
| **OPC-581** 11.5' separation cable | 60.99 |
| **OPC-587** 16' separation cable | 79.99 |
| **OPC-599** 7+8-pin to 13-pin adapter | 60.99 |
| **OPC-742** 13-pin cable | 60.99 |
| **RMK-706** Package; MB-62/MB-63/OPC-581 | 70.99 |
| **SM-6** Desk microphone | 99.99 |
| **SM-20** Deluxe desk microphone | 199.99 |
| **OPC-589** 8-pin to jack adapt; SM-6/8/20 | 35.99 |
| **SP-10** Slim-line external speaker | 69.99 |
| **UT-102** Voice synthesizer | 74.99 |
| **IC-7000** Deluxe mini HF/6m/2m/440 Xcvr | 1499.99 |
| (W4R) **Antenna Boss II** interface;mot ant/IC7000 | 149.99 |
| **AH-4** 80-6m 120w auto wire ant tuner | 259.99 |
| **AH-2B** Whip w/mt; 40-6m use tuner | 349.99 |
| **AH-2B** extra **whip only** | 179.99 |
| **AT-180** Auto coax antenna tuner; HF+6m | 369.99 |
| **OPC-598** 23' extension cable; AT-180 | D 69.99 |
| **CT-17** CI-V level converter | 129.99 |
| **LC-156** Back pack carrying case | 99.99 |
| **MB-62** Mounting bracket for main unit | 25.99 |
| **MB-65** Mounting base (MB-105 required) | 35.99 |
| **MB-105** Remote head bracket | 20.99 |


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## Icom - continued

| | AES Price |
|---|---|
| MB-106 Carry handle | 20.99 |
| OPC-599 7+8-pin to 13-pin adapter | 60.99 |
| OPC-742 13-pin cable | 60.99 |
| OPC-1443 11.5' remote cable | 60.99 |
| OPC-1444 16' remote cable | 80.99 |
| OPC-1457 Extra DC cable | 28.99 |
| RMK-7000 Package; MB-62, MB-105, OPC-1443 | 95.99 |
| SM-6 Desk microphone | 99.99 |
| SM-20 Deluxe desk microphone | 199.99 |
| OPC-589 8-pin to jack adapt; SM-6/8/20 | 35.99 |
| SP-10 Slim-line external speaker | 69.99 |
| **AH-710** 1.9-30 MHz 80' folded dipole/98' coax | 269.99 |
| **PW-1** 160-15+6m linear amplifier/ps/tuner | 4699.99 |

### RECEIVERS

| | |
|---|---|
| **R-5-06** .15M-1.3G AM/FM hand/batts/cgr/cell blkd | $199.99 |
| **R-5-11*** Handheld Rcvr/restricted sales! | 199.99 |
| AD-92SMA SMA- BNC adapter | 16.99 |
| CP-18A Cig lighter cable | 30.99 |
| CS-R5 Win programming software | 40.99 |
| OPC-474 Cloning cable (R-5 to R-5) | 18.99 |
| OPC-478 PC RS-232C cable | 45.99 |
| OPC-478U PC USB cable | 60.99 |
| HP-4 Lightweight headphones | 29.99 |
| LC-146A Carrying case | 24.99 |
| SP-13 Earphone | 4.99 |
| **R-3-26** .5M-2.45G AM/FM/TV hand Rcvr/cell blkd | 344.99 |
| **R-3-27*** Rcvr/TV/restricted sales! special order | 489.99 |
| BC-135 Desktop charger w/adapter cup | 80.99 |
| BP-206 Extra 3.7v 1650mah lith ion batt | 63.99 |
| CP-18A Cig lighter cable | 30.99 |
| CS-R3 Win programming software | 24.99 |
| OPC-474 Cloning cable (R-3 to R-3) | 18.99 |
| OPC-478 PC RS-232C cable | 45.99 |
| OPC-478U PC USB cable | 60.99 |
| HP-4 Lightweight headphones | 29.99 |
| LC-151 Carrying case | 24.99 |
| SP-13 Earphone | 4.99 |
| **R-20-06** 150KHz-3.3GHz handheld Rcvr/cell blkd | 509.99 |
| **R-20-11*** Handheld Rcvr/restricted sales! | 509.99 |
| BC-156-02 Desktop charger | 80.99 |
| BP-206 Extra 3.7v 1650mah lith ion batt | 63.99 |
| CP-18A Cig lighter cable | 30.99 |
| CS-R20 Cloning software/USB cable; R-20 | 56.99 |
| CT-17 CI-V level converter | 129.99 |
| LC-158 Carrying case | 29.99 |
| MB-86 Swivel belt clip | 9.99 |
| SP-13 Earphone | 4.99 |
| **PCR-1000-07 BON*** PC Rcv/restricted sales! D | 459.99 |
| AH-7000 25-1000 MHz discone ant w/coax | 169.99 |
| OPC-131 DC power cord D | 13.99 |
| SP-10 Slim-line external speaker | 69.99 |
| UT-106 Plug-in DSP unit | 139.99 |
| **PCR-1500-25** PC control Receiver/cell blkd | 579.99 |
| **PCR-1500-30*** PC Rcv/restricted sales! spec order | 579.99 |
| OPC-254L Right angle mini DC pwr cable | 14.99 |
| OPC-441 16.4' speaker extension cable | 33.99 |
| SP-10 Slim-line external speaker | 69.99 |
| UT-106 Plug-in DSP unit | 139.99 |
| **R-1500-05** Receiver w/remote head/cell blkd | 699.99 |
| **R-1500-10*** Rcvr/restricted sales! special order | 699.99 |
| OPC-254L Right angle mini DC pwr cable | 14.99 |
| OPC-441 16.4' speaker extension cable | 33.99 |
| SP-10 Slim-line external speaker | 69.99 |
| UT-106 Plug-in DSP unit | 139.99 |

*United States & state government agencies or a political subdivision thereof and communications utility companies and their legal agents **ONLY** may purchase unblocked models of PCR-1000/PCR-1500/R-3/R-5/R-20/R-1500 for official government or communications utility company use only. Mail or FAX purchase order to AES. Exports: inquire.

## Icom - continued

| | AES Price |
|---|---|
| **BON CS-40** Bonito soft; PCR-1000-02/07 ..Δ | 68.99 |
| CS-R2 DOS programming software; R-2 .....D | .69 |
| CS-R10 DOS programming software; R-10 D | 2.99 |
| CSW-HHRX Win prog soft/cable; R-10/R-2 D | 19.99 |
| FA-B01RE Extra BNC duck antenna .....D | 14.99 |
| FA-B02RE High sensitivity VHF BNC duck ..D | 19.99 |
| LC-140 Carrying case for R-10 .....D | 19.99 |
| MB-12 Mobile mount; R-8500 .....D | 39.99 |
| RS-R8500 PC ctl soft w/RS-232 cbl; R-8500 Δ | 69.99 |
| **R-75** .03-60 MHz shortwave Rcvr w/DSP | 599.99 |
| CR-282 High stability crystal unit | 149.99 |
| CT-17 CI-V level converter | 129.99 |
| FL-52A 500 Hz 455 KHz IF CW filter | 179.99 |
| FL-53A 250 Hz 455 KHz IF CW filter | 179.99 |
| FL-100 500 Hz 9 MHz IF CW filter | 119.99 |
| FL-101 250 Hz 9 MHz IF CW filter | 119.99 |
| FL-103 2.8 KHz 9 MHz IF SSB filter | 109.99 |
| FL-222 1.9 KHz 455 KHz IF SSB filter | 199.99 |
| FL-223 1.9 KHz 9 MHz IF SSB filter | 99.99 |
| FL-232 350 Hz 9 MHz IF CW/RTTY filter | 89.99 |
| FL-257 3.3 KHz 455 KHz IF SSB filter | 199.99 |
| MB-5 Mobile mount | 59.99 |
| MB-23 Side mount carrying handle | 15.99 |
| OPC-869 DC cable | 55.99 |
| RS-R75 PC control software w/RS-232 cable | 80.99 |
| SP-23 Speaker w/audio filter | 199.99 |
| UT-102 Voice synthesizer | 74.99 |
| **BC-96** Wireless mic holder; IC-2100H .....D | 24.99 |
| CS-2100 DOS cloning software; IC-2100H ..D | 9.99 |
| CSW-2100 Win prog soft/cable; IC-2100H ...Δ | 49.99 |
| EX-1759 Infrared receiver; IC-2100H .....D | 79.99 |
| HM-90A Wireless microphone; IC-2100H ....D | 79.99 |
| HM-133S Extra TTP mic; IC-2100H ..... Δ | 89.99 |
| MB-28H Mobile bkt; 2100H/207H/2800H ...Δ | 26.99 |
| OPC-346 9.8' DC cable; 2100H/207H/2800H Δ | 28.99 |
| OPC-872 Controller extension cable; 2800H D | 6.99 |
| UT-84 Tone squelch unit; IC-2700H/821H ...D | 79.99 |
| UT-101 DTMF unit for IC-2000H .....D | $ 28.99 |
| **IC-2200H** 65w 2m FM Xcvr | 179.99 |
| CS-2200H Windows cloning software | 80.99 |
| OPC-478 PC RS-232C cable | 45.99 |
| OPC-478U PC USB cable | 60.99 |
| MB-17A Quick release bracket | 49.99 |
| OPC-347 23' DC cable | 46.99 |
| OPC-440 16.4' mic extension cable | 85.99 |
| OPC-441 16.4' speaker extension cable | 33.99 |
| OPC-474 Radio to radio cloning cable | 18.99 |
| OPC-589 8-pin mic jack adapter cable | 35.99 |
| OPC-1132 9.8' DC cable | 28.99 |
| SP-10 Slim-line external speaker | 69.99 |
| UT-108 DTMF decoder unit | 35.99 |
| UT-118 Digital board | 199.99 |
| **IC-V8000** 75w 2m FM Xcvr w/WX alert/scan | 199.99 |
| CS-V8000 Windows cloning software | 35.99 |
| OPC-478 PC RS-232C cable | 45.99 |
| OPC-478U PC USB cable | 60.99 |
| OPC-347 23' DC cable | 46.99 |
| OPC-440 16.4' mic extension cable | 85.99 |
| OPC-441 16.4' speaker extension cable | 33.99 |
| OPC-474 Radio to radio cloning cable | 18.99 |
| OPC-589 8-pin mic jack adapter cable | 35.99 |
| OPC-1132 9.8' DC cable | 28.99 |
| SP-10 Slim-line external speaker | 69.99 |
| UT-108 DTMF decoder unit | 35.99 |
| V8000-MMB Extra mobile bracket | 26.99 |
| **IC-208H** 55w 2m/50w 440 FM Xcvr | 329.99 |
| CS-208 Win cloning software | 35.99 |
| OPC-478 PC RS-232C cable | 45.99 |
| OPC-478U PC USB cable | 60.99 |
| MB-17A Quick release bracket | 49.99 |
| MB-58 Remote controller bracket | 39.99 |

## Icom - continued

| | AES Price |
|---|---|
| MB-65 Mounting base platform | 35.99 |
| OPC-347 23' DC cable | 46.99 |
| OPC-440 16.4' mic extension cable | 85.99 |
| OPC-441 16.4' speaker extension cable | 33.99 |
| OPC-474 Radio to radio cloning cable | 18.99 |
| OPC-589 8-pin mic jack adapter cable | 35.99 |
| OPC-601R 23' separation cable | 67.99 |
| OPC-1132 9.8' DC cable | 28.99 |
| SP-10 Slim-line external speaker | 69.99 |
| **IC-2720H** 50w 2m/35w 440 FM Xcvr | 399.99 |
| CS-2720 Win/DOS cloning software | 35.99 |
| OPC-478 PC RS-232C cable | 45.99 |
| OPC-478U PC USB cable | 60.99 |
| MB-17A Quick release bracket | 49.99 |
| MB-84 Extra remote controller bracket | 18.99 |
| MB-65 Mounting base platform | 35.99 |
| MB-85 Combination bracket | 25.99 |
| OPC-347 23' DC cable | 46.99 |
| OPC-440 16.4' mic extension cable | 85.99 |
| OPC-441 16.4' speaker extension cable | 33.99 |
| OPC-474 Radio to radio cloning cable | 18.99 |
| OPC-589 8-pin mic jack adapter cable | 35.99 |
| OPC-1132 9.8' DC cable | 28.99 |
| OPC-1156 11.5' separation cable | 26.99 |
| SP-10 Slim-line external speaker | 69.99 |
| **IC-910H** 100w 2m/75w 430 FM/SSB Xcvr | 1299.99 |
| PS-125 25A switching power supply | 299.99 |
| AG-25 2m mast mounted GaSFET preamp | 159.99 |
| AG-35 430 MHz mast mounted preamp | 169.99 |
| CR-293 High stability xtal unit | 289.99 |
| CT-17 CI-V level converter | 129.99 |
| FL-132 500 Hz main Rcvr CW filter | 119.99 |
| FL-133 500 Hz sub band Rcvr CW filter | 119.99 |
| MB-5 Mobile mount | 59.99 |
| MB-23 Side mount carrying handle | 15.99 |
| SM-20 Deluxe desk microphone | 199.99 |
| SP-10 Slim-line external speaker | 69.99 |
| UT-102 Voice synthesizer | 74.99 |
| UT-106 Plug-in DSP unit (one per band) | 139.99 |
| UX-910 10w 1.2GHz module | 529.99 |
| **ID-1** 10w 1.2GHz FM/128k analog/digital Xcvr | 999.99 |
| MB-17A Quick release bracket | 49.99 |
| OPC-440 16.4' mic extension cable | 85.99 |
| SP-10 Slim-line external speaker | 69.99 |
| **ID-800** 55w 2m/50w 440 FM analog/dig Xcvr | 629.99 |
| CS-D800 Cloning software | 45.99 |
| OPC-478 PC RS-232C cable | 45.99 |
| OPC-478U PC USB cable | 60.99 |
| MB-17A Quick release bracket | 49.99 |
| OPC-347 23' DC cable | 46.99 |
| OPC-440 16.4' mic extension cable | 85.99 |
| OPC-441 16.4' speaker extension cable | 33.99 |
| OPC-601R 23' separation cable | 67.99 |
| OPC-1132 9.8' DC cable | 28.99 |
| SP-10 Slim-line external speaker | 69.99 |

### D-STAR REPEATERS

| | |
|---|---|
| ID-RP2C Repeater controller ....special order | 1459.99 |
| ID-RP2D 1.2GHz data module ..special order | 1112.99 |
| ID-RP2C/2D Rptr controller/data rptr spec order | 2297.99 |
| ID-RP2L 10GHz backbone rptr ..special order | 5209.99 |
| ID-RP2V 1.2GHz voice repeater special order | 3299.99 |
| ID-RP2C/2V Rptr controller/voice rptr spec order | 4255.99 |
| ID-RP2D/V Complete D/V rptr package spec order | 5246.99 |
| ID-RP2D/V+Link D/V+link rptr pack spec order | 9904.99 |

### Accessories for IC-2AT

| | |
|---|---|
| BM-112U/BC-16U Wall cgr; 5A/7/8 only .....Δ | $ 26.99 |
| CP-1 Cig cgr; BP-3/7/8//DC cord .....Δ | 26.99 |
| **IC-T2H Sport** 6w 2m FM HT/battery holder | 99.99 |
| AD-81 Batt pack adapter for rapid charger | 17.99 |
| BC-110A/BC-74 Extra wall charger | 40.99 |
| BC-119-N01 Desk charger (adapter required) | 65.99 |

## Icom - continued

| | AES Price |
|---|---|
| **BC-133** Drop-in trickle charger | 39.99 |
| **BC-122A** AC adapter for BC-133 | 16.99 |
| **BP-194** AA alkaline battery case | 18.99 |
| **BP-195** 9.6v 700mah nicad battery | 42.99 |
| **BP-196** 9.6v 1050mah nicad battery | 40.99 |
| **CP-12L** Rt angle cig charge cable w/filter | 36.99 |
| **CP-17L** Right angle cig cable for charger | 24.99 |
| **CS-T2** DOS prog software for IC-T2 D | 9.99 |
| **OPC-474** Cloning cable (T2 to T2) | 18.99 |
| **OPC-478** PC RS-232C cable | 45.99 |
| **CSW-HH4** Windows prog soft w/cable; T2 | 50.99 |
| **HM-46** Slim-line speaker/mic | 45.99 |
| **HM-54** Hvy duty spkr/mic | 79.99 |
| **HM-75A** Remote control microphone | 70.99 |
| **HM-128** Earphone+microphone | 25.99 |
| **HM-131** Spkr/mic/earph jack/revolving clip | 38.99 |
| **HS-51** Headset w/VOX | 96.99 |
| **HS-94** Ear-piece style headset; use w/VS-1 | 24.99 |
| **VS-1** VOX-PTT unit for HS-94 | 42.99 |
| **LC-145** Carrying case for IC-T2 | 38.99 |
| **LCF3 Swivel** Leather case with swivel | 50.99 |
| **MB-68** Extra standard belt clip D | 5.99 |
| **MB-74N** Spring loaded belt clip | 12.99 |
| **MB-87** Swivel belt clip | 9.99 |
| **NCP-1** Nylon chest pack | 39.99 |
| **OPC-254L** Right angle mini DC chg cable | 14.99 |
| **SP-13** Earphone | 4.99 |
| **IC-V8** 5.5w 2m FM HT/batt/cgr/TTP | 129.99 |
| **BC-119-N01** Desk charger (adapter required) | 65.99 |
| **AD-94-11** Adapter cup; BC-119-N01 | 10.99 |
| **AD-101** Batt adapt; BP-211/BC-119-N01 | 18.99 |
| **BC-144-01**/21/N51 Desk cgr/adap; not N-series D | 49.99 |
| **BC-144N** Rapid desk charger | 89.99 |
| **BP-208N** Battery case | 18.99 |
| **BP-209N** 7.2v 1100mah 5.5w battery | 40.99 |
| **BP-210N** 7.2v 1650mah 5.5w battery | 50.99 |
| **BP-211N** 7.4v 1800mah lith ion battery | 75.99 |
| **BP-222N** 7.2v 600mah 5.5w battery | 35.99 |
| **CP-17L** Right angle cig cable for charger | 24.99 |
| **CS-V8** Cloning software for IC-V8 | 35.99 |
| **OPC-474** Cloning cable (V8 to V8) | 18.99 |
| **OPC-478** PC RS-232C cable | 45.99 |
| **OPC-478U** PC USB cable | 60.99 |
| **HM-46L** Slim-line spkr/mic, rt angle plug | 45.99 |
| **HM-54** Hvy duty spkr/mic | 79.99 |
| **HM-75A** Remote control microphone | 70.99 |
| **HM-128L** Rt angle plug earphone+mic | 25.99 |
| **HM-158L** Rt angle spkr/mic/earph jack/clip | 42.99 |
| **HS-51** Headset w/VOX | 96.99 |
| **HS-94** Ear-piece style headset; use w/VS-1L | 24.99 |
| **VS-1L** Right angle VOX-PTT unit for HS-94 | 42.99 |
| **LCF3G Swivel** Leather case with swivel | 50.99 |
| **MB-68** Extra standard belt clip D | 5.99 |
| **MB-74N** Spring loaded belt clip; orig batts | 12.99 |
| **MB-86** Swivel belt clip; N-series batteries | 9.99 |
| **MB-87** Swivel belt clip; original batteries Δ | 6.99 |
| **MB-103** Spring loaded belt clip; N-series batts | 12.99 |
| **OPC-515L** Right angle DC cord for charger | 20.99 |
| **SP-13** Earphone | 4.99 |
| **UT-108** DTMF decoder unit | 35.99 |
| **IC-V82** 7w 2m FM HT/battery/charger | 169.99 |
| **IC-U82** 5w 440 FM HT/battery/charger | 169.99 |
| **BC-144N** Rapid desk charger | 89.99 |
| **BP-208N** Battery case | 18.99 |
| **BP-209N** 7.2v 1100mah 5.5w battery | 40.99 |
| **BP-210N** 7.2v 1650mah 5.5w battery | 50.99 |
| **BP-211N** 7.4v 1800mah lith ion battery | 75.99 |
| **BP-222N** 7.2v 600mah 5.5w battery | 35.99 |
| **CS-V82** Cloning software for IC-V82/U82 | 40.99 |
| **OPC-474** Cloning cable (HT to HT) | 18.99 |
| **OPC-478** PC RS-232C cable | 45.99 |
| **OPC-478U** PC USB cable | 60.99 |

## Icom - continued

| | AES Price |
|---|---|
| **HM-75A** Remote control microphone | 70.99 |
| **HM-128L** Rt angle plug earphone+mic | 25.99 |
| **HM-158L** Rt angle spkr/mic/earph jack/clip | 42.99 |
| **HS-85** Headset w/VOX | 89.99 |
| **HS-94** Ear-piece style headset; use w/VS-1L | 24.99 |
| **VS-1L** Right angle VOX-PTT unit for HS-94 | 42.99 |
| **MB-86** Swivel belt clip | 9.99 |
| **MB-103** Spring loaded belt clip; N-series batts | 12.99 |
| **SP-13** Earphone | 4.99 |
| **UT-108** DTMF decoder unit | 35.99 |
| **UT-118** Digital board | 199.99 |
| **IC-T7H** 6w 2m/440 FM HT/batt/cgr/TTP | 199.99 |
| **IC-W32A** 5w 2m/440 FM HT/batt/cgr/TTP | 289.99 |
| **AD-51** Batt pack adapt; W32A/rapid cgr | 9.99 |
| **AD-56** Batt pack adapt; T7H/T22A/rapid cgr | 18.99 |
| **BC-110A**/BC-74 Extra wall charger | 40.99 |
| **BC-119-N11** Nicad/NiMH desk cgr (adapt required) | 89.99 |
| **BP-170** Battery case | 35.99 |
| **BP-172** 4.8v 950mah battery | 91.99 |
| **BP-173** 9.6v 600mah battery | 119.99 |
| **BP-180** 7.2v 600mah battery | 83.99 |
| **CP-12** Cig lighter cable w/filter | 36.99 |
| **CP-12L** Right angle cig cable w/filter | 36.99 |
| **CSW-32** DOS prog software for IC-W32A D | 9.99 |
| **OPC-474** Cloning cable W32A to W32A | 18.99 |
| **OPC-478** PC RS-232C cable | 45.99 |
| **CSW-HH4** Windows prog soft/cbl; T7H/W32A | 50.99 |
| **OPC-474** Cloning cable | 18.99 |
| **OPC-478** PC RS-232C cable | 45.99 |
| **FA-1443B** Extra 2m/440 dual band duck Δ | 29.99 |
| **HM-46** Slim-line speaker/mic | 45.99 |
| **HM-54** Heavy duty spkr/mic | 79.99 |
| **HM-75A** Remote control microphone | 70.99 |
| **HM-128** Earphone+microphone | 25.99 |
| **HM-131** Spkr/mic/earph jack/revolving clip | 38.99 |
| **HS-10** Boom mic/headset D | 49.99 |
| **HS-10SA** VOX unit D | 59.99 |
| **HS-10SB** PTT switchbox D | 59.99 |
| **HS-85** Headset w/VOX | 89.99 |
| **HS-94** Ear-pc headset; use w/VS-1 | 24.99 |
| **VS-1** VOX-PTT unit for HS-94 | 42.99 |
| **LC-128** Vinyl case; IC-W32A | 38.99 |
| **LC-136** Vinyl case; T7H w/BP170/171/172 D | 29.99 |
| **LC-137** Vinyl case; T7H w/BP173/180 | 38.99 |
| **NCP-1** Nylon chest pack | 39.99 |
| **OPC-254** Mini DC power cable D | 14.99 |
| **OPC-254L** Right angle mini DC pwr cable | 14.99 |
| **SP-13** Earphone | 4.99 |
| **AD-87** Batt pack adapter; rapid cgr; T81A Δ | 8.99 |
| **AD-88** PCB board; original BC-119-11 Δ | 29.99 |
| **BC-119-N21** Nicad/NiMH desk cgr (use adapt); T81A Δ | 99.99 |
| **BC-127A** Extra nicad charger; IC-Q7 D | 4.99 |
| **BP-199** 6v 700mah NiMH battery; IC-T81A D | 29.99 |
| **BP-200L** 9.6v 760mah NiMH battery; T81A Δ | 89.99 |
| **IC-T90A** 5w 6m/2m/440 HT/batt/cgr/lith | 259.99 |
| **AD-92SMA** SMA- BNC adapter | 16.99 |
| **BC-139** Desk rapid charger | 94.99 |
| **BP-216** Battery case for 2 AA | 35.99 |
| **BP-217** 7.4v 1300mah lith ion battery | 89.99 |
| **CP-19R** Cig lighter cable w/filter | 44.99 |
| **CS-T90A** Windows cloning software; IC-T90A | 35.99 |
| **OPC-474** Cloning cable (radio to radio) | 18.99 |
| **OPC-478** PC RS-232C cable | 45.99 |
| **OPC-478U** PC USB cable (Win XP only) | 60.99 |
| **HM-46** Slim-line speaker/mic | 45.99 |
| **HM-75A** Remote control microphone | 70.99 |
| **HM-128** Earphone+microphone | 25.99 |
| **HM-131** Spkr/mic/earph jack/revolving clip | 38.99 |
| **HS-85** Headset w/VOX | 89.99 |
| **HS-94** Ear-pc headset; use w/VS-1 | 24.99 |
| **VS-1** VOX-PTT unit for HS-94 | 42.99 |

## Icom - continued

| | AES Price |
|---|---|
| **LC-152A** Carrying case | 24.99 |
| **MB-83** Swivel belt clip | 9.99 |
| **SP-13** Earphone | 4.99 |
| **IC-P7A** 1.5w 2m/1w 440 FM submini HT/lith ion | 239.99 |
| **BP-243** 3.7v 1800mah lith ion battery | 56.99 |
| **CP-21LR** Cig cable w/filter | 56.99 |
| **CS-P7** Windows cloning software | 35.99 |
| **OPC-478** PC RS-232C cable | 45.99 |
| **OPC-478U** PC USB cable | 60.99 |
| **HS-85** Headset w/VOX | 89.99 |
| **HS-94** Ear-piece headset | 24.99 |
| **LC-161** Carrying case | 36.99 |
| **SP-13** Earphone | 4.99 |

### Accessories for IC-2SAT/2SRA/24AT/W2A

| | |
|---|---|
| **BP-83** 7.2v 600mah battery Δ | $ 79.99 |
| **BP-90** AA alkaline battery case Δ | 35.99 |
| **AD-28** Batt pack adapt for rapid cgr;2GXAT Δ | 9.99 |
| **AD-44** Batt adapter; rapid cgr; T21A D | .19 |
| **BP-174** 12v 600mah battery; 2GXAT Δ | 69.99 |

### ACCESSORIES

| | |
|---|---|
| **AG-25** 2m mast mounted GaSFET preamp | $159.99 |
| **AG-35** 430 MHz mast mounted preamp | 169.99 |
| **CT-17** CI-V level converter | 129.99 |
| **HM-12** Scan hand microphone | 74.99 |
| **MB-23** Side mount carrying handle | 15.99 |
| **OPC-137** Adapter cable; older Icom Xcvr D | 9.99 |
| **PS-125** 25A switching power supply | 299.99 |
| **SM-6** Electret desk microphone | 99.99 |
| **SM-20** Deluxe desk microphone | 199.99 |
| **SP-5** Mobile speaker | 39.99 |
| **SP-10** Slim-line external speaker | 69.99 |
| **SP-20** Speaker w/audio filter | 239.99 |
| **SP-23** Speaker w/audio filter | 199.99 |

### CONSUMER ELECTRONICS

| | |
|---|---|
| **A-23** 5w compact Navicom air handheld D | $329.99 |
| **IC-M1V** Waterproof 5w VHF marine handheld D | 199.99 |
| **IC-M32** Waterproof 5w VHF marine handheld | 149.99 |
| **IC-M72** Waterproof 6w VHF marine handheld | 199.99 |
| **IC-M302W02** White waterproof 25w VHF marine | 159.99 |
| **IC-M402W02** White waterproof 25w VHF marine D | 189.99 |
| **M-710** (21) 150w HF marine SSB spec order | 1399.99 |
| **AT-130** HF marine auto ant tuner spec order | 449.99 |
| **M-802** 150w DSP marine SSB Xcvr spec order | 1749.99 |
| **IC-4088A** Dlx family radio service handheld Δ | 89.99 |
| **BP-202** Nicad battery; IC-4008A/4088A Δ | 9.99 |
| **IC-F21-GM** 15 ch 4w GMRS/FRS handheld | 149.99 |

## IDIOM PRESS (IDI)

| | |
|---|---|
| **K-3** Logikey CW keyer D | $129.99 |
| **K-5** Logikey CW keyer | 149.99 |
| **HK-3** Hook-up kit | 10.99 |

## International Ant (IAC)

| | |
|---|---|
| **40m** double **Bazooka Shorty** 40' antenna Δ | $ 79.99 |
| **80m-S** 80m half sloper 67' antenna Δ | 69.99 |
| **40m-S** 40m half sloper 33' antenna Δ | 39.99 |

## ISOTRON (ISO)

| | |
|---|---|
| **160C** 160m 9.5' x 16" x 15" 100 KHz bandwidth ant | $173.99 |
| **80** 80m 32" x 16" x 15" 110 KHz bandwidth ant | 98.99 |
| **40** 40m 22" x 16" x 15" 250 KHz bandwidth ant | 88.99 |
| **20** 20m 21" x 8" x 4" 350 KHz bandwidth ant | 78.99 |
| **15** 15m 21" x 1.5" x 4" 450 KHz bandwidth ant | 78.99 |
| **10** 10m 16" x 1.5" x 4" 1 MHz bandwidth ant | 78.99 |
| **6** 6m 16.5" x 2" x 4" 1.25 MHz bandwidth ant | 78.99 |
| **80/40 Combo*** 80/40m 32" x 16" x 30" ant | 177.99 |
| *Requires coaxial "T's" & jumpers - not included | |
| **40/20 Combo** 40/20m combo antenna | 167.99 |
| **20/15/10 Combo** 20/15/20m combo ant | 198.99 |



AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

AES Price

## JR (JRP)

317275 XS3 synth FM pistol/1-Z590W/1-Z270 75M Δ $169.99
SP-100 SC-1 fwd/rev speed control .....Δ 44.99

## K-COM (KCO)

RF-1 Modular telephone 3-30 MHz RFI filter . $ 16.99
RF-1/Low Modular phone .5-3 MHz RFI filter 16.99
RF-1/2-line 2-line modular 3-30 MHz RFI filt 22.99
RF-1/coiled Coiled cord modular 3-30MHz filt 22.99
RF-2 Hard-wired telephone 3-30 MHz RFI filt 10.99
RF-2/Low Hard-wired phone .5-3 MHz RFI filt 10.99

## KANTRONICS (KAN)

KPC-3 Plus/128K Small packet TNC/128K RAM $198.99
KPC-9612 Plus/128K 9600 controller/128K ... 388.99
(CSS) Pacterm for Windows Soft; Kan TNCs 99.99
12VDC Adaptor 300ma adaptor; KPC-3 ..... 12.99
APRS adapter cable; GPS to Kantronics TNC 32.99
Host Master II+ IBM software .....D 69.99
KAM 98 Single port multi-mode dig controller D 369.99
(CSS) Pacterm for Windows Soft; Kan TNCs 99.99
12VDC Adaptor 300ma adaptor; KAM 98 ..... 12.99
APRS adapter cable; GPS to Kantronics TNC 32.99
KAM XL All mode TNC w/DSP modems ..... 409.99
(CSS) Pacterm for Windows Soft; Kan TNCs 99.99
12VDC Adaptor 300ma adaptor; KAM XL ..... 12.99
APRS adapter cable; GPS to Kantronics TNC 32.99

## KENT (KNT)

SK-1 Straight key ..... $129.99
SP-1 Single paddle key ..... 139.99
TP-1 Dual paddle iambic key ..... 149.99
VK-1 Vail Correspondent straight key ..... 179.99

## KENWOOD (KEN)

SP-950 Ext spkr/audio filters; TS-950SDX .....Δ $149.99
TS-B2000 PC ctl HF/6m/2m/430 Xcvr/tuner *1449.99
*Price w/instant coupon; coupon expires 4/29/06
TS-2000 HF/6m/2m/430 Xcvr/ant tuner ..... *1599.99
*Price w/instant coupon; coupon expires 4/29/06
*UT-20 1.2GHz module Kenwood install only
TS-2000X HF/6m/2m/430/1.2 Xcvr/tuner .... *2099.99
*Price w/instant coupon; coupon expires 4/29/06
KPS-15 23A switching ps w/fan, 25A surge 134.99
PS-53 Heavy duty 22.5A power supply ..... 269.99
ARCP-2000 PC control soft (inc w/TS-B2000) 82.99
DRU-3A Digital recording unit ..... 129.99
HS-5 Deluxe headphones ..... 79.99
HS-6 Lightweight headphones ..... 59.99
MB-430 Mobile mounting bracket ..... 49.99
MC-43S Extra 8-pin hand mic w/up-down . 59.99
MC-57DM Back-lit TTP hand mic ..... 79.99
MC-60A 8-pin amp desk mic w/up-down .. 149.99
MC-90 2-head DSP desk microphone ..... 249.99
PG-2Y 13' DC cable ..... 39.99
PG-2Z 6.5' heavy duty DC cable ..... 37.99
RC-2000 Remote faceplate mobile kit ..... 369.99
SP-23 External speaker ..... 89.99
VS-3 Voice synthesizer ..... 39.99
PS-52 Heavy duty power supply; TS-870S ...Δ 269.99
SP-31 External speaker; TS-870S .....Δ 99.99
TS-480HX 200w HF/100w 6m Xcvr ..... *1099.99
*Price w/instant coupon; coupon expires 4/29/06
TS-480SAT 100w HF/6m Xcvr w/auto tuner *999.99
*Price w/instant coupon; coupon expires 4/29/06
PS-53 Hvy duty 22.5A ps (use 2 for 200w) 269.99
E30-3489-05 Extra 6' DC cable for TS-480 38.99
HS-6 Lightweight headphones ..... 59.99
MB-480 Carrying bracket w/handle ..... 47.99
MC-43S Extra 8-pin hand mic w/up-down . 59.99
MC-47 Multi-function 8-pin hand mic ..... 59.99
MC-60A 8-pin amp desk mic w/up-down .. 149.99

## Kenwood - continued

AES Price

MJ-88 Modular to 8-pin mic adapter ..... 32.99
PG-4Z 13' panel extension kit ..... 58.99
PG-20 22' DC cable ..... 46.99
SO-3 TCXO unit ..... 109.99
SP-23 External speaker ..... 89.99
SP-50B High quality external mobile spkr .. 55.99
VGS-1 Voice guide & storage unit ..... 67.99
YF-107C 500 Hz CW filter ..... 119.99
YF-107CN 270 Hz CW filter ..... 119.99
YF-107SN 1.8 KHz SSB filter ..... 119.99
TS-570D(G) 9-band Xcvr/Rcv/AFDSP/tuner/mic *919.99
*Price w/instant coupon; coupon expires 4/29/06
TS-570S(G) 9-band Xcv/6m/Rcv/AFDSP/tune/mic *1079.99
*Price w/instant coupon; coupon expires 4/29/06
KPS-15 23A switching ps w/fan, 25A surge 134.99
PS-53 Heavy duty 22.5A power supply ..... 269.99
DRU-3A Digital recording unit ..... 129.99
HS-5 Deluxe headphones ..... 79.99
HS-6 Lightweight headphones ..... 59.99
MB-430 Mobile mounting bracket ..... 49.99
MC-43S 8-pin hand mic w/up-down ..... 59.99
MC-60A 8-pin amp desk mic w/up-down .. 149.99
MC-90 2-head DSP desk microphone ..... 249.99
PG-2Y 13' DC cable ..... 39.99
PG-2Z 6.5' heavy duty DC cable ..... 37.99
SO-2 TCXO unit ..... 179.99
SP-23 External speaker ..... 89.99
SP-50B High quality external mobile spkr .. 55.99
VS-3 Voice synthesizer ..... 39.99
YK-88C-1 500 Hz CW filter ..... 129.99
YK-88CN-1 270 Hz CW filter ..... 129.99
YK-88SN-1 1.8 KHz SSB filter ..... 129.99
7-pin DIN plug ..... 4.99
8-pin DIN plug ..... 6.99
13-pin DIN plug ..... 9.99
AT-50 External HF auto tuner .....Δ 329.99
PG-4M 18' extension cable for AT-50 .....Δ 29.99
HS-5 Deluxe headphones ..... 79.99
HS-6 Lightweight headphones ..... 59.99
KES-5 Heavy duty 40w unterminated speaker 59.99
KPS-15 23A switching ps w/fan, 25A surge . 134.99
LF-30A 1kw PEP low pass filter ..... 64.99
MC-43S 8-pin hand mic w/up-down switch .. 59.99
MC-60A 8-pin amp desk mic w/up-down ..... 149.99
MJ-88 Modular to 8-pin mic adapter ..... 32.99
PG-3B 15A DC line noise filter ..... 29.99
SP-50B High quality external mobile speaker 55.99
TC-50/50Case Travel case; TS-50S/60S .....D 89.99
TU-7 Prog encoder; 2550/751A/TW-4100A .Δ 54.99
YG-455C-1 500 Hz CW filter; TS-450/690 ..Δ 149.99
YK-107C 500 Hz CW filter; TS-50S .....Δ 129.99
TM-V708A 50w 2m/35w 440 FM Xcvr ..... 399.99
TM-D700A 50w 2m/35w 440 FM/1200/9600 ... *519.99
*Price w/instant coupon; coupon expires 4/29/06
MB-201 Extra mobile bracket ..... 25.99
MJ-88 Modular to 8-pin mic adapter ..... 32.99
PG-2N Extra DC cable ..... 17.99
PG-4X 13' extension cable kit ..... 69.99
PG-5A Packet data cable ..... 15.99
SP-50B High quality external mobile spkr .. 55.99
VS-3 Voice synthesizer ..... 39.99
TM-G707A 50w 2m/35w 440 FM/TTP mic ..D 279.99
DFK-3C 9' sep disp cable kit; TMG707A .Δ 44.99
DFK-4C 13' remote cable kit; TMG707A ..Δ 64.99
DFK-7C Dlx 23' remote cable kit; TMG707A Δ 99.99
MB-201 Extra mobile bracket ..... 25.99
MJ-88 Modular to 8-pin mic adapter ..... 32.99
PG-2N Extra DC cable ..... 17.99
PG-4S PC interface cable; TM-G707A .....Δ 32.99
PG-5A Packet data cable ..... 15.99
SP-50B High quality external mobile spkr .. 55.99

## Kenwood - continued

AES Price

VS-3 Voice synthesizer ..... 39.99
TM-271A 60w 2m FM Xcvr w/WX alert ..... 169.99
MJ-88 Modular to 8-pin mic adapter ..... 32.99
PG-2N Extra DC cable ..... 17.99
PG-5D PC interface cable ..... 78.99
SP-50B High quality external mobile spkr .. 55.99
DFK-3 9' separate displ cable kit;642/742 ...Δ 28.99
DFK-4 13' remote cable kit; 642/742AD .....Δ 59.99
DFK-7 Dlx 22' remote cable kit;642/742 ....Δ 89.99
KQT-8/TSU-6 Prog CTCSS decoder; TM-541A Δ 49.99
MC-57DM Back-lit TTP mic;241/331/441/541 .. 79.99
MC-58DM Back-lit TTP mic;251/733/742/255/V7A 79.99
TSU-7 CTCSS decoder unit; TM-642/742AD Δ 59.99
UT-50S 50w 6m unit; TM-642/742AD .....Δ 329.99
BT-9 4-AA battery holder; TH-22 .....Δ 29.99
KSC-14 2-pack rapid charger; TH-22 .....Δ 49.99
PB-34 9.6v 600mah 5w battery; TH-22 .....Δ 89.99
SC-45 Soft case for TH-G71A/PB-38/39 .....Δ 15.99
TSU-8 CTCSS decoder; TH22/42AT/TM461A Δ 59.99
TH-K2AT 5w 2m FM HT/battery/charger ..... 139.99
TH-K2AT(K2) 5w 2m FM HT/batt holder ...Δ 99.99
BT-14 6-AA battery holder ..... 19.99
EMC-3 Lapel clip mic/ear piece ..... 24.99
HMC-3 VOX/boom mic headset ..... 48.99
KHS-21 Boom mic headset ..... 33.99
KSC-24 Rapid charger ..... 48.99
PB-43N 7.2v 1100mah NiMH battery ..... 44.99
PG-2W DC cable w/fuse ..... 17.99
PG-3J Cig lighter cord w/filter ..... 37.99
PG-4Y 9-pin PC programming cable ..... 32.99
SC-54 Soft case ..... 16.99
SMC-32 Mini water resist rt angle spkr/mic . 52.99
SMC-33 Speaker/mic w/remote control ..... 65.99
SMC-34 Spkr/mic w/vol cont/function keys 32.99
WR-2 Water resistant bag; TH-22/42AT ..... 29.99
TH-D7A(G) 5w 2m/440 FM HT/1200/9600 TNC .... *329.99
*Price w/instant coupon; coupon expires 4/29/06
BC-19 Rapid charger ..... 64.99
BT-11 4-AA battery holder ..... 17.99
EMC-3 Lapel clip mic/ear piece ..... 24.99
HMC-3 VOX/boom mic headset ..... 48.99
J29-0631-13 Belt clip for batt; D7A/G71A . 4.99
PB-39 9.6v 600mah 5w battery ..... 57.99
PG-2W DC cable w/fuse ..... 17.99
PG-3J Cig lighter cord w/filter ..... 37.99
PG-4W PC software/cable; TH-D7A(G) ..... 55.99
SC-47B Black soft case for TH-D7A(G) ..... 15.99
SC-47OR Orange soft case for TH-D7A(G) . 15.99
SMC-32 Mini water resist rt angle spkr/mic . 52.99
SMC-33 Speaker/mic w/remote control ..... 65.99
SMC-34 Spkr/mic w/vol cont/function keys 32.99
WR-2 Water resistant bag ..... 29.99
TH-F6A 5w 2m/220/440 FM HT/lith ion batt .. 329.99
BT-13 AA battery case ..... 25.99
EMC-3 Lapel clip mic/ear piece ..... 24.99
HMC-3 VOX/boom mic headset ..... 48.99
KHS-21 Boom mic headset ..... 33.99
PB-42L Extra 7.4v 1550mah lithium ion batt 79.99
PG-2W DC cable w/fuse ..... 17.99
PG-3J Cig lighter cord w/filter ..... 37.99
PG-4Y 9-pin PC programming cable ..... 32.99
SC-51 Soft case w/swivel belt clip ..... 16.99
SMC-32 Mini water resist rt angle spkr/mic . 52.99
SMC-33 Speaker/mic w/remote control ..... 65.99
SMC-34 Spkr/mic w/vol cont/function keys 32.99
WR-2 Water resistant bag ..... 29.99

### CONSUMER ELECTRONICS

TKM-707 150w HF marine SSB Xcvr spec order 1249.99
KAT-1 HF marine auto ant tuner ...spec order 569.99

AES Price

## KESTER (KES)

| | |
|---|---|
| 82-5000-0004 .5 oz 60/40 solder, .040 dia .. | $ 2.99 |

## KLEINHUIS (KLE)

| | |
|---|---|
| 1309 Isolated grounding bar | $ 14.99 |

## KOSS (KOS)

| | |
|---|---|
| KTX/8 Collapsible stereophone w/vol control ... | $ 14.99 |
| QZ/5 Passive noise reduction stereophone .... | 49.99 |
| QZ/50 Active noise reduction stereophone .... | 49.99 |
| QZ/99 Noise reduction stereoph w/mono sw . | 59.99 |
| QZ/2000 Active noise reduction stereophone | 149.99 |
| Y-88 Dual stereophone Y-adapter | 4.99 |

## KURANISHI (KUR)

| | |
|---|---|
| BR-210 1.8-170MHz SWR/antenna analyzer . | $429.99 |

## LDG (LDG)

| | |
|---|---|
| MP-AL-Cable Ali interface cable; AT-11MP .D | $ 2.99 |
| MP-IC-Cable Icom interface cbl; AT-11MP .D | 2.99 |
| AT-100Pro 160-6m 1-125w/100w 6m auto tuner | 199.99 |
| AT-200Pro 160-6m 5-250w/100w 6m auto tuner | 229.99 |
| AL-IC1 Alinco 10' interface cable .....D | 20.99 |
| Icom-IC1 Icom 10' interface cable | 20.99 |
| Icom-IC2 Icom 8" interface cable | 8.99 |
| K-OTT Kenwood one-touch tune interface D | 59.99 |
| RBA-1:1 Remote 1:1 balun | 30.99 |
| RBA-4:1 Remote 4:1 balun; long/random/end fed | 30.99 |
| Y-ACC FT857/897 interface cable | 12.99 |
| AT-1000 1000w PEP HF/100w 6m auto tuner | 549.99 |
| AT-897 Bolt-on auto tuner for Yaesu FT-897 . | 199.99 |
| RBA-1:1 Remote 1:1 balun | 30.99 |
| RBA-4:1 Remote 4:1 balun; long/random/end fed | 30.99 |
| DTS-4 4-pos HF/6m 1500/250w ant switch .. | 79.99 |
| DTS-4R Remote control for DTS-4 | 39.99 |
| DTS-6 6-pos HF/6m 1500/250w ant switch .. | 99.99 |
| DTS-6R Remote control for DTS-6 | 49.99 |
| RT-11 160-6m .1-125w/50w 6m rem autotuner D | 199.99 |
| AL-IC1 Alinco 10' interface cable .....D | 20.99 |
| Icom-IC1 Icom 10' interface cable | 20.99 |
| Icom-IC2 Icom 8" interface cable | 8.99 |
| K-OTT Kenwood one-touch tune interface D | 59.99 |
| RBA-1:1 Remote 1:1 balun | 30.99 |
| RBA-4:1 Remote 4:1 balun; long/random/end fed | 30.99 |
| RT-Remote RT remote head .....D | 39.99 |
| Z-11Pro 160-6m .1-125w/100w 6m auto tuner | 179.99 |
| AL-IC1 Alinco 10' interface cable .....D | 20.99 |
| Icom-IC1 Icom 10' interface cable | 20.99 |
| Icom-IC2 Icom 8" interface cable | 8.99 |
| K-OTT Kenwood one-touch tune interface D | 59.99 |
| RBA-1:1 Remote 1:1 balun; short random . | 30.99 |
| RBA-4:1 Remote 4:1 balun; long/random/end fed | 30.99 |
| Y-ACC FT857/897 interface cable | 12.99 |
| Z-100 160-6m .1-125w/50w 6m auto tuner . | 149.99 |
| AL-IC1 Alinco 10' interface cable .....D | 20.99 |
| Icom-IC1 Icom 10' interface cable | 20.99 |
| Icom-IC2 Icom 8" interface cable | 8.99 |
| K-OTT Kenwood one-touch tune interface D | 59.99 |
| RBA-1:1 Remote 1:1 balun; short random . | 30.99 |
| RBA-4:1 Remote 4:1 balun; long/random/end fed | 30.99 |
| Y-ACC FT857/897 interface cable | 12.99 |
| FT-METER Multi-function meter for FT-857/897 | 49.99 |
| TW-1 160-10m 2kw PEP talking wattmeter/SWR | 149.99 |
| TW-2 6m-440 250w PEP talking wattmeter/SWR | 149.99 |

## LA CROSSE (LAC)

| | |
|---|---|
| WS-2010 Professional wireless weather stn D | $299.99 |
| WS-2010-13 PC interface/software .....D | 79.99 |
| WS-2310 Wireless/wired weather center ....D | 249.99 |
| WS-3610CH Professional wireless weather stn . | 339.99 |
| WS-7013U Wireless temperature station ....D | 24.99 |
| WS-7013BZ Wireless temperature station .... | 21.99 |

## La Crosse - continued

AES Price

| | |
|---|---|
| WS-7014CH Wireless forecast station | 49.99 |
| WS-7038UF Wireless rain gauge | 59.99 |
| WS-8117U-Oak Atomic clock/in/out temp/moon | 39.99 |
| WS-8025AL Dlx sun/moon wireless WX station | 159.99 |
| WS-9016U Sun/moon wireless weather stn D | 79.99 |
| WS-9016TWC Sun/moon wireless weather stn | 89.99 |
| WT-5120 Projection alarm/out temp/in humidity | 39.99 |
| WT-5431 Projection alarm w/remote temp ..D | 39.99 |
| TX-3U Extra temperature sensor w/LCD ..Δ | 15.99 |
| 3362U Power cost controller .....D | 29.99 |
| IR-101 Infra-red thermometer | 49.99 |
| RS-204U Remote control outlet system | 29.99 |

## LAKEVIEW (LAK)

| | |
|---|---|
| 9175 75m 7' Hamstick antenna | $ 29.99 |
| 9160 60m 7' Hamstick antenna | 29.99 |
| 9140 40m 7' Hamstick antenna | 29.99 |
| 9130 30m 7' Hamstick antenna | 29.99 |
| 9120 20m 7' Hamstick antenna | 29.99 |
| 9117 17m 7' Hamstick antenna | 29.99 |
| 9115 15m 7' Hamstick antenna | 29.99 |
| 9112 12m 7' Hamstick antenna | 29.99 |
| 9110 10m 7' Hamstick antenna | 29.99 |
| 9106 6m 4.5' Hamstick antenna | 29.99 |
| 901 Dipole mount for 2 Hamsticks | 16.99 |
| IM-1 Inductimatch for 75-12m mobile ant .. | 22.99 |
| TM-1 License plate mount, ⅜-24 | 49.99 |

## LARSEN (LAR)

### 27-31 MHz ANTENNA

| | |
|---|---|
| NMO-27B 10m black ant only (no mount) | $ 36.99 |
| NMO-27C 10m ant only (no mount) | 32.99 |

### 47-54 MHz ANTENNA

| | |
|---|---|
| NMO-50B 6m black ant only (no mount) | $ 36.99 |
| NMO-50C 6m ant only (no mount) | 32.99 |

### 144-174 MHz ANTENNAS

| | |
|---|---|
| NMO-150B 2m black ant only (no mt), 3 db . | $ 33.99 |
| NMO-150C 2m ant only (no mount), 3 db | 30.99 |
| OM-150CK 2m no ground plane antenna | 69.99 |

### 220-265 MHz ANTENNAS

| | |
|---|---|
| NMO-220B 220 black ant only (no mt), 3 db D | $ 36.99 |
| NMO-220C 220 ant only (no mount), 3 db ..D | 30.99 |

### 440-460 MHz ANTENNAS

| | |
|---|---|
| NMO-440B 440 black ant only (no mt), 3.4db D | $ 35.99 |
| NMO-440C 440 ant only (no mount), 3.4db .. | 29.99 |

### 890-960 MHz ANTENNA

| | |
|---|---|
| NMO-900B 900 black ant only (no mt), 3.4db | $ 39.99 |
| MM-2/70PL 2m/440 0/1.8db mag mt ant | 59.99 |
| NMO-2/70B 2m/440 blk ant only (no mt), 1.6/3.5db | 74.99 |
| NMO-2/70C 2m/440 ant (no mt), 1.6/3.5db D | 64.99 |
| NMO-2/70-SH 2m/440 ant (no mt), 0/1.8db . | 44.99 |
| NMOQ-Spec 136-960 MHz ¼ wave ant (no mt) | 13.99 |
| NMOQ-Spec-B 136-960 black ¼ wv ant (no mt) | 15.99 |
| NMOQ-Spec-K 136-960MHz ¼ wv ¾" hole ant | 28.99 |
| NMOQ-2/70-B 2m/440 ¼ wv cell look ant (no mt) D | 38.99 |
| GPS-NM002 GPS NMO mount ant (no mt) | 69.99 |
| NMO-150450800 3-band scanner ant (no mt) | 29.99 |

### ON GLASS ANTENNAS

| | |
|---|---|
| KG-144-UD-PL 2m on glass antenna | $ 89.99 |
| KG-220-UD-PL 220 on glass antenna .....D | 86.99 |
| KG-440-UD-PL 440 on glass antenna | 73.99 |
| KG-2/70-CX-PL 2m/440 on glass antenna ... | 129.99 |
| KG-Reinstall Reinstall kit for KG-ants | 8.99 |

### KULDUCKIES - For Hand-helds

| | |
|---|---|
| KD4-2/70 2m/440 9" BNC Kulduckie | $ 39.99 |
| KD4-146-HQ 2m 10.5" BNC Kulduckie | 25.99 |
| KD14-2M-HW 2m 44.5" BNC telescopic whip | 38.99 |
| KD14-445 440 6.5" BNC Kulduckie | 19.99 |

## Larsen - continued

AES Price

### ACCESSORIES

| | |
|---|---|
| BSA-K 144-512MHz base mtg kit; NMO/UHF ant | $ 53.99 |
| HP-34 3/4" hole plugs (5) | 3.99 |
| NMO-B38 NMO mt hdw/A-7 NLA adapter | 13.99 |
| NMO-CAP-B Black rain cap for NMO mount .. | 4.99 |
| NMO-K ¾" hole mt w/coax for NMO ant | 15.99 |
| NMO-KHF-UD ¾" hole mt w/coax for NMO ant | 12.99 |
| NMO-MM Magnet mt, coax for NMO ant .....D | 32.99 |
| NMO-MMR Round mag mt, coax for NMO ant | 32.99 |
| NMO-TLP Low profile tnk lid mt, coax; NMO ant | 29.99 |
| PO-K Roof mt, coax for SO-239 ant | 32.99 |
| PO-MM Magnet mt, coax for SO-239 ant | 36.99 |
| PO-TLM Trunk lip mt, coax for SO-239 ant .D | 9.99 |
| RG-SS Extra super seal NMO gaskets (3) | 5.99 |
| SPRING Shock spring | 10.99 |
| TMB-34 Trunk mtg bkt for NMO antenna | 5.99 |
| TMB-34B Black trunk mtg bkt for NMO ant .. | 7.99 |
| W-2/70B 2m/440 black replacement mobile whip | 27.99 |
| W-KG2/70 2m/440 replacment on glass whip | 29.99 |
| W-490 49" replacement moible whip | 8.99 |
| W-490B Black 49" replacement mobile whip | 12.99 |

## LIGHTWAVE (LIG)

| | |
|---|---|
| LW-HT 4 LED/3 AA-cell illuminator head torch | $ 39.99 |
| LW-PB 1 LED/2 lith-cell pocket flashlight | 19.99 |
| LW-2000 4 LED/3 AA-cell flashlight | 29.99 |
| LW-3000 7 LED/3 C-cell flashlight | 49.99 |
| LW-4000 10 LED/3 D-cell flashlight | 59.99 |

## LOGSAT (LOG)

| | |
|---|---|
| Logsat Professional Satellite tracking CDROM | $ 69.99 |

## LOSI (LOS)

| | |
|---|---|
| A0014 XXX-4 4WD electric Competition buggy kit D | $199.99 |
| A0090 XXX-T Sport RTR w/XR2i electric car Δ | 209.99 |

## M² (MSQ)

| | |
|---|---|
| KT-36XA 20/15/10m 6el 32' boom beam.....Δ | 1299.99 |
| 15M-4DX 15m 8.5db 4el 33' 8" boom beam Δ | 549.99 |
| 6M-3 6m 50-50.6 or 51-54 6.4db 3el 6'9" bm beam | 170.99 |
| 6M-5X 6m 50-50.5 or 51-54 9.4db 5el 18' bm beam | 283.99 |
| 6M-7JHV 6m 50-50.4 10.9db 7el 30'8"bm beam | 351.99 |
| 6M-HO-LOOP 6m 50-50.3 4.4db horiz loop ant | 129.99 |
| 6" x 1/2" 3/8-24 mobile mast for loop | 12.99 |
| 16" x 1/2" 3/8-24 mobile mast for loop | 14.99 |
| 18" x 5/8" 3/8-24 mobile mast for loop | 19.99 |
| 36" x 1/2" 3/8-24 mobile mast for loop | 31.99 |
| 50" x 1/2" 3/8-24 mobile mast for loop | 35.99 |
| Mast/Top Bkt Top bracket for mast; HO stack | 21.99 |
| 2M-4 2m 7.5db 4el 4' boom beam | 129.99 |
| 2M-7 2m 10.3db 7el 8'10" boom beam | 144.99 |
| 2M-9FM 2m 145-148 12db 9el 14' 6" boom D | 129.99 |
| 2M-9SSB 2m 144-146 12db 9el 14' 6" boom D | 156.99 |
| 2M-9SSB/FM 2m SSB or FM 12db 9el 14' 6" boom | 168.99 |
| 2M-12 2m 12.8db 12el 19'6" boom beam | 226.99 |
| 2M-5WL 2m 14.8db 17el 33' boom beam | 283.99 |
| 2M-18XXX 2m 144-146 15.3db 18el 36'3" bm beam | 328.99 |
| 2M-CP14 2m 10.3db 7h/7v 10'6"bm circ beam | 226.99 |
| 2M-CP22 2m 12.5db 11h/11v 18'6"bm circ beam | 329.99 |
| PS-2M 2m polarity switch; circ pol beam .. | 201.99 |
| FG X-Boom Kit For circular antennas, etc. | 186.99 |
| 2M5-440XP 2m/440 9/12db 5/10el 5'8" boom Δ | 199.99 |
| 2M-HO-LOOP 2m 144-144.5 4.86db horiz loop | 56.99 |
| 6" x 1/2" 3/8-24 mobile mast for loop | 12.99 |
| 16" x 1/2" 3/8-24 mobile mast for loop | 14.99 |
| 18" x 5/8" 3/8-24 mobile mast for loop | 19.99 |
| 36" x 1/2" 3/8-24 mobile mast for loop | 31.99 |
| 50" x 1/2" 3/8-24 mobile mast for loop | 35.99 |
| Big-Foot 4x-mag mt; 2M-HO-LOOP stack/etc | 129.99 |
| MAG-KIT Magnet mt kit; single 2m-HO-LOOP | 28.99 |
| Mast/Top Bkt Top bracket for mast; HO stack | 21.99 |
| STACK-KIT Stack kit for 2 2m-HO-LOOP's | 80.99 |
| EB-144/RK-2M 2m Eggbeater w/reflector kit | 241.99 |



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## M² - continued

| | AES Price |
|---|---|
| **222-7EZ** 220 9.8db 7el 5' 8" boom beam ..... | 129.99 |
| **222-10EZ** 220 12db 10el 9' 9" boom beam .. | 144.99 |
| **222-5WL** 220 15.2db 15el 23'3" boom beam | 226.99 |
| **222-7WL** 220 16.4db 23el 32'5" boom beam | 283.99 |
| **222-HO-LOOP** 220-224 4.75db horiz loop ant .. | 56.99 |
| **6" x 1/2"** 3/8-24 mobile mast for loop ..... | 12.99 |
| **16" x 1/2"** 3/8-24 mobile mast for loop ..... | 14.99 |
| **18" x 5/8"** 3/8-24 mobile mast for loop ..... | 19.99 |
| **36" x 1/2"** 3/8-24 mobile mast for loop ..... | 31.99 |
| **50" x 1/2"** 3/8-24 mobile mast for loop ..... | 35.99 |
| **MAG-KIT** Magnet mt kit; single 222-HO-LOOP | 28.99 |
| **Mast/Top Bkt** Top bracket for mast; HO stack | 21.99 |
| **440-470-5W** 440-470 7.8db 5el 2'2"bm beam D | 119.99 |
| **420-50-11** 432 11.3db 11el 5' bm rear mt beam | 129.99 |
| **440-18** 432 14.5db 18el 11'4" boom beam .. | 170.99 |
| **440-21ATV** 432 15.9db 21el 14'6" bm ATV beam | 201.99 |
| **436-CP30** 432 14.5db 15h/15v 9'9"bm circ beam | 329.99 |
| **436-CP42UG** 432 16.8db 21h/21v 18'10"bm circ | 387.99 |
| **PS-70CM** 432 polarity switch; circ pol beam | 201.99 |
| **FG X-Boom Kit** For circular antennas, etc. | 186.99 |
| **432-9WL** 432 17.3db 28el 21' boom beam ... | 244.99 |
| **432-13WLA** 432 18.6db 38el 30'8" boom ...Δ | 249.99 |
| **432-HO-LOOP** 430-436 5db horiz loop ant ... | 56.99 |
| **6" x 1/2"** 3/8-24 mobile mast for loop ..... | 12.99 |
| **16" x 1/2"** 3/8-24 mobile mast for loop ..... | 14.99 |
| **18" x 5/8"** 3/8-24 mobile mast for loop ..... | 19.99 |
| **36" x 1/2"** 3/8-24 mobile mast for loop ..... | 31.99 |
| **50" x 1/2"** 3/8-24 mobile mast for loop ..... | 35.99 |
| **Big-Foot** 4x-mag mt; 432-HO-LOOP stack/etc | 129.99 |
| **MAG-KIT** Mag mt kit; single 432-HO-LOOP .... | 28.99 |
| **Mast/Top Bkt** Top bracket for mast; HO stack | 21.99 |
| **STACK-KIT-70CM** Stack kit; 2 432-HO-LOOP's | 80.99 |
| **EB-432/RK-70CM** 432 Eggbeater w/reflector kit | 226.99 |
| **902-18EZ** 900MHz 14.8db 18el 5'4"bm beam D | 119.99 |
| **23CM-22EZA** 1.2GHz 16db 22el 5'2" bm beam | 170.99 |
| **23CM-35** 1.2GHz 18.4db 35el 10' bm beam .. | 226.99 |
| **2M-2-Port-PD** 2m 2-port type N power divider | 79.99 |
| **70CM-2-Port-PD** 432 2-port N power divider | 79.99 |
| **23CM-2-Port-PD** 1.2GHz 2-port N power divider | 79.99 |
| **FAST MAST** 20' extended port alum mast ...D | 89.99 |
| **OR-2800PDC** 35 sq ft azimuth rotor/control/8-wire | 1598.99 |

## MFJ (MFJ)

### ANTENNA TUNERS

| | |
|---|---|
| **9982** 2.5kw continuous w/roller inductor ..... | $649.99 |
| **989D** Dlx 1.2kw PEP w/roller inductor ..... | 319.99 |
| **986** 1.2kw PEP w/roller inductor ..... | 299.99 |
| **962D** 1.5kw PEP/meter/switch/balun/roller ind | 249.99 |
| **969** HF & 6m 300w roller inductor tuner ..... | 189.99 |
| **949E** 300w/PEP meter/dummy/switch/balun ..... | 139.99 |
| **948** 300w/meter/switch/balun ..... | 119.99 |
| **941E** 300w tuner w/meter, switch, balun ..... | 109.99 |
| **945E** 300w tuner w/meter plus 6m ..... | 99.99 |
| **20** Mobile bracket for 945E ..... | 4.99 |
| **901B** Versa Tuner 200w ant tuner ..... | 79.99 |
| **910** 80-10m mobile antenna matcher ..... | 19.99 |
| **1601O** 200w random wire tuner ..... | 49.99 |
| **974** 3.5-54MHz balanced line ant tuner .....D | 139.99 |
| **974B** 3.5-54MHz balanced line ant tuner ..... | 169.99 |
| **974H** 1.8-54MHz balanced line ant tuner ...D | 159.99 |
| **974HB** 1.8-54MHz balanced line ant tuner ... | 189.99 |
| **991** 150w automatic antenna tuner .....D | 169.99 |
| **991B** 150w automatic antenna tuner ..... | 209.99 |
| **993B** 300w deluxe automatic antenna tuner | 249.99 |
| **994** 600w automatic antenna tuner .....D | 289.99 |
| **994B** 600w automatic antenna tuner ..... | 339.99 |
| **1316** 12vdc 1.5A adapter; auto tuners ..... | 19.99 |
| **5124A** Alinco interface cable; auto tuners | 19.99 |
| **5124I** Icom interface cable; auto tuners .... | 19.99 |
| **5124K** Kenwood interface; auto tuners ..... | 59.99 |
| **5124Y** Yaesu interface; auto tuners ..... | 59.99 |

## MFJ - continued

| | AES Price |
|---|---|
| **902** 80-10m 150w travel tuner ..... | 79.99 |
| **903** 6m antenna tuner ..... | 49.99 |
| **906** 6m antenna tuner w/wattmeter ..... | 79.99 |
| **914** Auto tuner extender ..... | 59.99 |
| **921** 2m/220 300w PEP tuner/SWR/wattmeter | 69.99 |
| **922** 2m/440 150w tuner/SWR/wattmeter ..... | 79.99 |
| **924** 440 MHz 300w PEP tuner/SWR/wattmeter | 69.99 |
| **934** 300w tuner w/artificial ground ..... | 169.99 |

### MEMORY KEYERS

| | |
|---|---|
| **451** Dedicated CW keyboard w/memory ..... | $ 99.99 |
| **452** CW keyboard/keyer w/disp/keyboard ..... | 129.99 |
| **452X** CW keyboard/keyer w/disp, no keyboard | 99.99 |
| **498** Dlx CW keyboard/keyer w/disp/keyboard D | 119.99 |
| **490** 492 keyer/Bencher paddle combo ..... | 199.99 |
| **490X** 492 keyer for use w/Bencher or 564 ..... | 99.99 |
| **564** Deluxe iambic chrome paddle for 490X | 59.99 |
| **564B** Deluxe iambic black paddle for 490X | 59.99 |
| **492** 192 char menu driven memory keyer ..... | 99.99 |
| **495** Millennium memory keyer ..... | 159.99 |
| **5409** 9-pin serial port 6' cable for 493 .....Δ | .99 |

### ELECTRONIC KEYERS

| | |
|---|---|
| **407D** Deluxe electronic keyer ..... | $ 69.99 |
| **401D** Econo keyer ..... | 49.99 |

### KEYER/PADDLES

| | |
|---|---|
| **422D** Keyer/Bencher paddle combination ..... | $169.99 |
| **422DX** Keyer only ..... | 79.99 |
| **441** SlimLine econo keyer ..... | 59.99 |
| **442** SlimLine keyer/Bencher paddle combo ... | 159.99 |
| **442X** SlimLine keyer only .....Δ | 49.99 |
| **447** SlimLine deluxe keyer ..... | 79.99 |
| **564** Deluxe iambic chrome paddle ..... | 59.99 |
| **564B** Deluxe iambic black paddle ..... | 59.99 |

### COMPUTER INTERFACES

| | |
|---|---|
| **1224** Interface ..... | $ 99.99 |
| **1285** Software for IBM; 1224 ..... | 19.99 |
| **48** 1278 upgrade for 1278B ..... | 24.99 |
| **780** DSP data filter for 1278B .....Δ | 49.99 |
| **781** DSP filter for any TNC or controller .....Δ | 49.99 |
| **1214PC** Multimode interface for IBM ..... | 149.99 |
| **1272B** TNC to microphone interface ..... | 39.99 |
| **1272BYH** TNC/mic switch; KAM HF ..... | 39.99 |
| **1272BYV** TNC/mic switch; KAM VHF ..... | 39.99 |
| **1272M** TNC/mic RJ-45 switch; MFJ/PK-900 .. | 39.99 |
| **1272MYV** TNC/mic RJ-45 sw; KAM VHF; KPC3 | 39.99 |
| **1284M** 3½" IBM starter pack .....D | 4.99 |
| **1284W** MFJCOM for Windows ..... | 29.99 |
| **1289W** Multicom for Windows with cable ..... | 59.99 |
| **1289WD** Multicom for Windows, less cable ... | 49.99 |

### SSB/CW FILTERS

| | |
|---|---|
| **751B** Super tunable CW audio filter ..... | $ 69.99 |
| **752C** Dual tunable SSB/CW filter ..... | 99.99 |
| **784B** Deluxe tuneable DSP filter ..... | 229.99 |
| **5184** Cable pack for 784B ..... | 7.99 |

### PHONE PATCH

| | |
|---|---|
| **624D** Phone patch w/audio VU meter ..... | $119.99 |

### DUMMY LOADS

| | |
|---|---|
| **250** 2kw PEP dummy load w/oil ..... | $ 59.99 |
| **250X** 2kw PEP dummy load, less oil ..... | 39.99 |
| **21** 1 gal industrial xfmr oil for wet dummy | 24.99 |
| **260C** 300w 0-650 MHz dry dummy load ..... | 34.99 |
| **260CN** 300w 0-650 MHz type N dry dummy .. | 39.99 |
| **264** 1.5kw 0-650 MHz dry dummy load ..... | 69.99 |
| **264N** 1.5kw 0-650 MHz type N dry dummy ... | 79.99 |
| **267** 1.8-60 100w dry dummy load/SWR/wattmeter | 149.99 |

### SWR/WATTMETERS

| | |
|---|---|
| **812B** 144-220 MHz SWR/FS/wattmeter ..... | $ 34.99 |
| **815C** 160-10m cross-needle SWR/wattmeter | 89.99 |
| **816** 1.8-30 MHz toroidal SWR/wattmeter ..... | 34.99 |
| **817** 2m/440 cross needle meter .....D | 79.99 |
| **817C** 2m/220/440 cross needle meter ..... | 99.99 |

## MFJ - continued

| | AES Price |
|---|---|
| **841** 2m 5w in-line HT wattmeter/SWR ..... | 39.99 |
| **844** Compact 2m/440 SWR/wattmeter ..... | 69.99 |
| **860** 1.8-60 MHz cross-needle meter ..... | 44.99 |
| **862** 2m/220/440 cross-needle meter ..... | 54.99 |
| **864** 1.8-60MHz/2m/440 cross needle meter . | 84.99 |
| **868** HF 6.5" diagonal PEP SWR/wattmeter ... | 139.99 |
| **870** 1.6-60MHz Grandmaster SWR/wattmeter | 129.99 |
| **872** 1.8-200MHz Grandmaster SWR/wattmeter | 94.99 |
| **873** 125-525MHz Grandmaster SWR/wattmeter | 114.99 |
| **874** 1.8-525MHz Grandmaster SWR/wattmeter . | 169.99 |

### SHORTWAVE ACCESSORIES

| | |
|---|---|
| **306** Car radio SWL converter ..... | $ 89.99 |
| **956** LW/MW/SW preselector/tuner ..... | 49.99 |
| **959C** SW receiver ant tuner w/preamp ..... | 99.99 |
| **1020C** .3-30 MHz indoor active receive ant .. | 79.99 |
| **1022** 300KHz-200MHz active rcv antenna .... | 49.99 |
| **1024** .05-30 MHz outdoor active rcv ant ..... | 129.99 |
| **1040C** Deluxe receiver preselector ..... | 99.99 |
| **1045C** Receiver preselector ..... | 69.99 |

### BOOKS

| | |
|---|---|
| **30** Golden Classics book ..... | $ 9.95 |
| **32** Packet Made Easy book ..... | 9.95 |
| **33** Mobile Handbook book ..... | 12.95 |
| **36** Shortwave Listeners Guide; Apts/Condos . | 9.95 |
| **37** Ham Communications Circuit Files book . | 9.95 |
| **38** Easy-up Antennas book ..... | 16.95 |
| **3036** The Packet Radio Operators book ..... | 12.95 |
| **3101** Fox Hunt Adventure book ..... | 7.95 |
| **3211** Technician license guide ..... | 9.95 |
| **3213** General license guide ..... | 9.95 |
| **3301** Troubleshooting Antenna & Feedlines book | 12.95 |
| **3302** 73 Dipole and Long-Wire Antennas ..... | 12.95 |
| **3303** 73 Vertical, Beam, and Triangle Ants ... | 12.95 |
| **3305** Antennas & Transmission Lines book ... | 19.95 |
| **3400** Morse Code: Breaking the Barrier ..... | 19.95 |
| **3502** Solid State QRP Projects ..... | 12.95 |
| **3504** FET Principles, Experiments & Projects | 16.95 |
| **3506** Ferromagnetic-Core Design book ..... | 19.95 |
| **3507** Practical RF Design Manual ..... | 19.95 |
| **3509** Ladder Crystal Filters ..... | 19.95 |

### CLOCKS

| | |
|---|---|
| **105C** 24-hour quartz wall clock ..... | $ 19.99 |
| **107B** 24-hour digital clock ..... | 9.99 |
| **108B** 24/12-hour dual disp digital clock ..... | 19.99 |
| **112B** Deluxe world map clock ..... | 24.99 |
| **113** 24/12-hr 1.8" LED clock/batt back-up ... | 19.99 |
| **115** DX'er 24-hour analog world wall clock .. | 24.99 |
| **118** Giant 24/12 hour LCD clock ..... | 24.99 |
| **123** Eternity solar atomic clock ..... | 79.99 |
| **125** Calendar 24-hour analog wall clock ..... | 29.99 |

### ANTENNAS

| | |
|---|---|
| **343** 1⅛" hole mount for 3/8-24 whip ..... | $ 9.99 |
| **1402** 2m/440 0/3db 16.5" 100w ant only ..... | 34.99 |
| **1412** 2m/440 3/5.5db 40" 200w ant only ..... | 49.99 |
| **1422** 2m/440 3.2/5.7db 41.5" 150w ant only | 49.99 |
| **1432** 2m/440 5/7.6db 62.5" 150w ant only .. | 69.99 |
| **1436** 6m/2m/440 2.15/4.5/7.2db 59" ant only | 79.99 |
| **333BM** 3.5" HiFlux NMO mag mt; not 1436 | 14.99 |
| **333BS** 3.5" HiFlux SO-239 magt mt not 1436 | 14.99 |
| **335BM** 5" HiFlux NMO mag mt; not 1436 .. | 19.99 |
| **335BS** 5" HiFlux SO-239 mag mt; not 1436 | 19.99 |
| **340** Mirror/luggage pipe clamp mount ..... | 34.99 |
| **345** Trunk/hatchback lip mount SO-239 mt | 34.99 |
| **1516** 2m 15' vertical base antenna ..... | 99.99 |
| **1621** 40-10m 54" portable ant w/tuner ..... | 89.99 |
| **1622** 40-2m apartment antenna ..... | 99.99 |
| **1624** 40-6m mini bugcatcher antenna ..... | 79.99 |
| **1661** 40-2m portable manual screwdriver ant | 119.99 |
| **1664** 80-6m portable manual screwdriver ant | 149.99 |
| **1710** 2m ⅜ wave telescopic BNC antenna .... | 9.99 |
| **1712** 2m/440 telescopic BNC antenna ..... | 14.99 |

## MFJ - continued

| | AES Price |
|---|---|
| **1712S** 2m/440 telescopic SMA antenna | 14.99 |
| **1713** 2m/440 SuperFlex Thin Duk HT ant | 19.99 |
| **1713S** 2m/440 SuperFlex SMA Thin Duk ant | 19.99 |
| **1714** 2m ½ wave telescopic BNC antenna | 16.99 |
| **1715** 2m/440 SuperFlex gain Thin Duk HT ant | 24.99 |
| **1715S** 2m/440 SuperFlex gain SMA Thin Duk | 24.99 |
| **1716** 2m/440 duck for HT | 16.99 |
| **1716S** 2m/440 SMA duck for HT | 16.99 |
| **1717** 2m/2.15db 440 duck for HT | 21.99 |
| **1717PL** 2m/440 foldover flexi-duck, PL-259 | 24.99 |
| **1717S** 2m/2.15db 440 SMA duck for HT | 21.99 |
| **1719** 2m/440/1.2GHz Midget Duck | 19.99 |
| **1719S** 2m/440/1.2GHz SMA Midget Duck | 19.99 |
| **1720S** 6m/2m/440 SMA Duck | 29.99 |
| **1721** 2m HT UltraLite mag mt antenna | 14.99 |
| **1722** 2m/440 HT UltraLite mag mt BNC ant | 18.99 |
| **1724B** 2m/440 magnet mt antenna | 16.99 |
| **1728B** 6m ¼ wv/2m ⅝ wv mag ant/PL259/BNC | 29.99 |
| **1729** 2m/440 magnet mt antenna | 34.99 |
| **1730** 2m pocket roll-up vertical antenna | 19.99 |
| **1734** 2m/440 2.6/6.3db glass mt antenna | 39.99 |
| **1736** 6m J-Pole travel antenna | 29.99 |
| **1738** 2m 2.6db glass mt antenna | 29.99 |
| **94** Remount kit for 1734/1738 | 4.99 |
| **1740** 2m ¼ wave ground plane ant | 19.99 |
| **1750** 2m ⅝ wave ground plane ant | 24.99 |
| **1752** 220 ⅝ wave ground plane ant | 24.99 |
| **1754** 2m/440 ground plane antenna | 29.99 |
| **1762** 6m 6db 3 el 6' boom beam | 79.99 |
| **1763** 2m 3el portable beam | 44.99 |
| **1764** 2 & 6m dual ⅝ super gain base ant | 49.99 |
| **1768** 2m/440 4/7 el beam antenna | 79.99 |
| **1778** G5RV 160-10m 102' ant (needs tuner) | 39.99 |
| **1786** Super Hi-Q 10-30 MHz loop/dlx control | 379.99 |
| **1788** Super Hi-Q 40-15m loop/dlx controller | 429.99 |
| **1796** 40/20/15/10/6/2m 10' vertical ant | 199.99 |
| **1798** 80/40/30/20/17/15/12/10/6/2m 20' vert | 279.99 |
| **1800** 2.4GHz wi-fi 16 element 15db beam | 29.99 |
| **5606SR** 6' N male - rp-SMA female cbl for 1800 | 24.99 |
| **1899T** 80-6m telescopic antenna; FT-817 | 69.99 |
| **1910** 33' telescoping fiberglass mast | 79.99 |
| **1954** 3/8-24 10' telescopic whip | 19.99 |
| **1956** 3/8-24 12' telescopic whip | 29.99 |

### CABLES

| | |
|---|---|
| **5020** MFJ TNC - Yae FT50R/compat | $ 15.99 |
| **5020YV** KAM VHF/KPC3 - Yae FT50R/compat | 15.99 |
| **5022** MFJ TNC - Alinco/Standard HT cable .Δ | 4.99 |
| **5022YV** KAM VHF/KPC3 - Ali/Sta HT cable | 15.99 |
| **5024** MFJ TNC - Ico/Yae/Ali/RS HT cable | 15.99 |
| **5024B** PK/PacComm/compat - Ico/Yae/RS | 15.99 |
| **5024YV** KAM VHF/KPC3 - Ico/Yae/Ali/RS HT | 15.99 |
| **5026** MFJ TNC - Kenwood HT cable | 15.99 |
| **5026YV** KAM VHF/KPC3 - Kenwood HT cable | 15.99 |
| **5060** MFJ TNC - Ken/Yae acc 6-pin mini DIN | 19.99 |
| **5060YQ** KPC9612 - Ken/Yae acc 6pin mini DIN | 19.99 |
| **5060YV** KAM VHF/KPC3 - Ke/Ya acc 6pin mni DIN | 19.99 |
| **5063** MFJ TNC - Icom HF acc 8-pin DIN | 19.99 |
| **5063YH** KAM DIN HF - Icom HF acc 8-pin DIN | 19.99 |
| **5064** MFJ TNC - Icom VHF acc 8-pin DIN | 19.99 |
| **5064YQ** KPC9612 - Icom VHF 8-pin DIN .Δ | .69 |
| **5065** MFJ TNC - Ico IC-706 acc 13-pin DIN | 19.99 |
| **5065YH** KAM HF - Ico IC-706 acc 13-pin DIN | 19.99 |
| **5065YV** KAM VHF - Ico IC706 acc 13-pin DIN | 19.99 |
| **5066** MFJ TNC - Kenwood HF acc 13-pin DIN | 19.99 |
| **5066YH** KAM HF - Ken HF acc 13-pin DIN | 19.99 |
| **5080** MFJ TNC - Yaesu 8-pin cable | 15.99 |
| **5080M** MFJ TNC - Yaesu 8-pin modular | 15.99 |
| **5080MYV** KAM VHF/KPC3 - Yae 2500M/7400H | 15.99 |
| **5080YH** KAM HF port - Yaesu 8-pin cable | 15.99 |
| **5080YV** KAM VHF/KPC3 - Yaesu 8-pin cable | 15.99 |
| **5082** Open end - 8-pin mic cable | 9.99 |

## MFJ - continued

| | AES Price |
|---|---|
| **5084** MFJ TNC - Icom 8-pin cable | 15.99 |
| **5084M** MFJ TNC - Icom 8-pin modular | 15.99 |
| **5084MYV** KAM VHF/KPC3 - Icom 8-pin mod | 15.99 |
| **5084YH** KAM HF port - Icom 8-pin cable | 15.99 |
| **5084YV** KAM VHF/KPC3 - Icom 8-pin cable | 15.99 |
| **5086** MFJ TNC - Kenwood/Alinco 8-pin cable | 15.99 |
| **5086M** MFJ TNC - Kenwood 8-pin modular | 15.99 |
| **5086MYV** KAM VHF/KPC3 - Ken 8-pin mod | 15.99 |
| **5086YH** KAM HF port - Ken/Ali 8-pin cable | 15.99 |
| **5086YV** KAM VHF/KPC3 - Ken/Ali 8-pin cable | 15.99 |
| **5088M** MFJ TNC - Radio Shack 8-pin modular | 15.99 |
| **5205** 5-pin DIN open end cable | 4.99 |
| **5208** Open end - Ico HF/VHF acc 8-pin DIN | 9.99 |
| **5213** Open end - Kenwood acc 13-pin DIN | 9.99 |
| **5220R**/5220 Open end - Yae FT50R/compat | 9.99 |
| **5222** Open end - Ali split HT cable | 9.99 |
| **5224** Open end - Ico/Yae/Ali/RS HT cable | 9.99 |
| **5268** Open end - modular phone plug cable | 9.99 |
| **5412** IBM printer cable | 9.99 |
| **5413** RS-232 6' cable DB-25M-25F .Δ | .49 |
| **5414** RS-232 6' cable DB-25M-9F | 9.99 |
| **5429** Cable/adapt; RS-232 to USB w/drivers | 24.99 |
| **5803**/10 3' coax jumper cable | 5.99 |

### RADIOS/TRANSCEIVERS

| | |
|---|---|
| **8100K** Shortwave regenerative Rcvr kit | $ 69.99 |
| **8100W** Shortwave regenerative Rcvr wired | 89.99 |
| **8621** 5w 2m data radio w/145.01 MHz | 149.99 |
| **8621X2** 5w APRS ready 2m data radio/144.39 | 159.99 |
| **4110** Portable AC power supply | 49.99 |
| **5100** Data radio cable - MFJ/TAPR | 15.99 |
| **5100YH** Data radio cable - KPC-9612 .Δ | .69 |
| **5100YV** Data radio cable - KAM/KPC-3 | 15.99 |
| **5106** Open end - 6pin mini Ken/Yae cable | 4.99 |
| **8708** 4ch ham micro ATV transmitter | 159.99 |
| **9015** 5w 15m CW Xcvr | 179.99 |
| **9020** 5w 20m CW Xcvr | 179.99 |
| **9030** 5w 30m CW Xcvr | 179.99 |
| **9040** 5w 40m CW Xcvr | 179.99 |
| **27** Handle for CW station | 4.99 |
| **412** Plug-in Curtis keyer | 49.99 |
| **726** Plug-in audio filter | 29.99 |
| **971** 200w portable ant tuner w/meter | 99.99 |
| **1772** Portable 20m dipole | 39.99 |
| **1774** Portable 40m dipole | 39.99 |
| **4110** Portable AC power supply | 49.99 |
| **4114** Rechargeable power pack | 69.99 |
| **9402X** 7w PEP 2m SSB Xcvr w/mic | 279.99 |
| **9406X** 10w PEP 6m SSB Xcvr w/mic | 259.99 |
| **9410X** 20w PEP 10m SSB Xcvr w/mic | 249.99 |
| **9420X** 20w PEP 20m SSB Xcvr w/mic | 239.99 |
| **9440X** 12w PEP 40m SSB Xcvr w/mic | 239.99 |
| **9475X** 12w PEP 75m SSB Xcvr w/mic | 239.99 |
| **415B** SSB Xcvr CW adapter; 9420X/9440X | 49.99 |
| **416** CW adapter for 9402X/9406X/9410X | 49.99 |
| **971** 200w HF portable ant tuner w/meter | 99.99 |
| **1770A** 10m dipole for 9410X | 39.99 |
| **1772** Portable 20m dipole | 39.99 |
| **1774** Portable 40m dipole | 39.99 |
| **4110** Portable AC power supply | 49.99 |
| **4114** Rechargeable power pack | 69.99 |

### ACCESSORIES

| | |
|---|---|
| **1305** 5v 300ma adapter .D | $ .99 |
| **1306** 6v 300ma adapter .Δ | 2.99 |
| **1312** 12vdc 300ma adapter, 2.5mm plug | 14.99 |
| **1312D** 12vdc 500ma adapter, 2.1mm plug | 14.99 |
| **1316** 12vdc 1.5A adapter | 19.99 |
| **15** HamGear belt loop radio holder | 14.99 |
| **16C01** Glazed ceramic end insulator | .99 |
| **18** HamGear chest harness/cargo pocket | 29.99 |
| **92AA01** 1300ma AA NiMH cell .each | 2.99 |

## MFJ - continued

| | AES Price |
|---|---|
| **92AA10** 10-pack 1300ma AA NiMH cells | 24.99 |
| **201** 1.5-250 MHz dip meter | 119.99 |
| **202B** RF noise bridge | 59.99 |
| **207** 160-10m SWR analyzer | 79.99 |
| **208** 2m SWR analyzer | 79.99 |
| **209** 1.8-170 MHz SWR analyzer | 129.99 |
| **212** MatchMaker tune up device | 79.99 |
| **219B** SWR analyzer, 440 MHz/N/SO-239 adapt | 99.99 |
| **224** 2m FM signal analyzer | 149.99 |
| **249B** 1.8-170 MHz SWR analy/LCD counter | 219.99 |
| **259B** 1.8-170 MHz SWR analy/RF res meter | 239.99 |
| **269** 1.8-170+440 MHz SWR analy/RF res mtr | 319.99 |
| **29C** Carrying case w/window; 209/249B/259B | 24.99 |
| **39C** Carrying case w/window; 269 | 24.99 |
| **66** 1.8-30/30-170 dip coils; 209/249B/259B | 19.99 |
| **92AA10** 10-pack 1300ma AA NiMH cells | 24.99 |
| **98** Package of 39C/66/1312D for 269 | 54.99 |
| **98B** Pack of 92AA10/39C/66/1312D for 269 | 77.99 |
| **99** Pack of 29C/66/1312D; 209/249B/259B | 54.99 |
| **99B** Pack; 92AA10/29C/66/1312D; 209/249B/259B | 77.99 |
| **99C** Pack - 92AA10/1312D; 209/249B/259B/269 | 34.99 |
| **731** RFI filter for SWR analyzer | 89.99 |
| **1312D** 12vdc 500ma ps for SWR analyzers | 14.99 |
| **270** Guardian Angel 400w PEP lightning protect | 29.99 |
| **97** Gas tube plug for 270 | 9.99 |
| **281** ClearTone communications speaker | 12.99 |
| **288I** Headset/mic; Icom/ADI/Sta/RS/older Yae | 24.99 |
| **288K** Headset/mic for Kenwood | 24.99 |
| **288Y** Headset/mic; Ico Q7/Yae FT10/50/VX1 | 24.99 |
| **292I** Earph/mic; Ico/older Yae/compatibles | 17.99 |
| **292Y** Earphone/mic; Ico Q7/Yae FT10/50/VX1 | 17.99 |
| **293I** Rubber flex earloop earbud/mic; Icom | 24.99 |
| **293K** Rubber flex earloop earbud/mic; Kenwood | 24.99 |
| **293Y** Rubber flex earloop earbud/mic; Yaesu | 24.99 |
| **295I** Mini spkr/mic; Icom & compatible HT | 15.99 |
| **295K** Mini spkr/mic; Kenwood & compatible HT | 15.99 |
| **295Y** Mini spkr/mic; Ico Q7/Yae FT10/50/VX1 | 15.99 |
| **297** Desk mic with flexible boom | 69.99 |
| **5082** Open end - 8-pin mic cable for 297 | 9.99 |
| **5268** Open end - mod phone plug cbl; 297 | 9.99 |
| **5397I** Cable/8-pin for 297; Icom HF | 15.99 |
| **5397K** Cable/8-pin for 297; Kenwood HF | 15.99 |
| **5397Y** Cable/8-pin for 297; Yaesu HF | 15.99 |
| **5397MX** Cable/modular for 297; Icom/Kenwood | 15.99 |
| **5397MY** Cable/modular for 297; Yaesu | 15.99 |
| **310** BNC HT antenna window mount clip | 14.99 |
| **310S** SMA HT antenna window mount clip | 14.99 |
| **341M** 17' antenna cable; NMO | 19.99 |
| **341S** 17' antenna cable; SO-239 | 19.99 |
| **382** Deluxe amplified communications spkr | 39.99 |
| **388** Cyber Ear 12db ear amplifier | 29.99 |
| **392B** Deluxe communication headphones | 19.99 |
| **394** Boom mic/single headphone .D | 29.99 |
| **5396K** Adapter; 394/396 with Ken Xcvr .D | .29 |
| **414** Professional Morse Tutor w/LCD | 189.99 |
| **417** Code Tutor with QSO | 59.99 |
| **418** Code Tutor with LCD display | 79.99 |
| **434B** Deluxe Voice Memory Keyer | 169.99 |
| **73** Remote control head w/cbl; 434/434B | 29.99 |
| **461** Pocket size Morse code reader | 79.99 |
| **5161** DB-9 PC serial port cable | 14.99 |
| **5162** Cable for radio external speaker | 5.99 |
| **462B** RTTY/ASCII/CW/AMTOR Rcvr multi-reader | 179.99 |
| **5162** Cable for radio external speaker | 5.99 |
| **464** CW reader w/built-in keyer | 169.99 |
| **550** Hand key | 9.99 |
| **554** Deluxe CW practice oscillator | 79.99 |
| **557** Code oscillator w/key | 34.99 |
| **616** Speech intelligibility enhancer | 169.99 |
| **1316** 12vdc 1.5A adapter | 19.99 |
| **281** ClearTone speaker (requires 2) | 12.99 |
| **392B** Deluxe communication headphones | 19.99 |



AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## MFJ - continued

AES Price

633 Rapid charger; NiMH/nicad AA/AAA/9V .. 24.99
662 Simplex pocket repeater ..... 79.99
701 Toroid RFI filters .....pack of 4 14.99
704 1kw low-pass filter ..... 49.99
762 81db 170MHz BNC attenuator ..... 69.99
801 Super compact field strength meter ..... 19.99
802 Bipolar field strength meter ..... 39.99
802R Field strength remote meter .....Δ 14.99
802X Field strength/remote meter combo ..... 59.99
805 RFI current detector meter ..... 79.99
850B AC line voltage monitor ..... 21.99
852 AC power line noise finder meter ..... 99.99
854 HF RF current meter ..... 99.99
886 1MHz - 3GHz pocket frequency counter .. 119.99
888 Deluxe 10Hz - 3GHz frequency counter .. 184.99
890 DX beacon monitor ..... 99.99
912 W9INN remote balun ..... 49.99
916B 2m/440 duplexer ..... 29.99
931 Artificial ground unit ..... 89.99
1025 Noise canceling antenna ..... 149.99
1026 Deluxe noise canceling unit w/antenna 169.99
1046 1.6-33MHz receiver passive preselector 99.99
1048 1.6-33MHz Xcvr passive preselector ..... 119.99
1112 Multiple DC outlet ..... 34.99
1116 Dlx multiple DC outlet ..... 49.99
1117 High current multiple DC outlet ..... 54.99
1118 Dlx high current multiple DC outlet ..... 74.99
1213 Interface for JVFAX/HamComm .....Δ 24.99
1263 2mic in/2rig out switch/1 round cbl/1 modlr cbl 99.99
5397MX Modular mic cable for 1263 ..... 15.99
1273B Basic soundcard interface/soft; 8P-R 59.99
1273BM Basic soundcard interface/soft; 8P-M 59.99
1275 Soundcard/rig interface/software; 8P-R 99.99
1275M Soundcard/rig interface/software; 8P-M 99.99
1279 Super soundcard interface/soft; 8P-R .. 129.99
1279M Super soundcard interface/soft; 8P-M 129.99
1700C 6-pos combo ant/xmtr switch/protect 99.99
1701 6-position coax switch ..... 59.99
1702C 2-pos coax switch/lightning protect .. 24.99
1702CN 2-pos 1.1GHz N switch/lightning protect 34.99
1703 2-rig/2-antenna RF safety switch ..... 19.99
1704 4-pos 500 MHz switch/lightning protect 64.99
1704N 4-position type N switch ..... 74.99
1925 Controller; Yaesu ATAS-series/other rigs 59.99
1925I2 Controller; Yae ATAS-series/Ico IC-706 59.99
4035MV Dlx 30A adjustable ps, 35A surge ... 149.99
4103 Switching power supply for Yaesu FT-817 39.99
4125MV MightyLite 22A 3.5 lb switch ps, 25A surge 109.99
4225MV MightyLite 22A switching ps, 25A surge 149.99
4245MV MightyLite 40A switching ps, 45A surge 199.99
4712 160-2m 2-pos remote antenna switch . 79.99

## MAGELLAN (MAG)

Meridian Color Handheld color GPS/16MB Δ $299.99
SporTrak GPS receiver w/1MB memory .....D 119.99
SporTrak Color Handheld color GPS/9MB ...D 279.99
980613-01 MapSend Streets & Destinations CD D 49.99
980654-01 MapSend DirectRoute; Pro/Color D 89.99
980654-03 MapSend DirectRoute; Gold/Plat/Col Δ 79.99

## MAHA (MAH)

9V 8.4v 170mah 9v size NiMH batt cell ....ea $ 8.99
AAA-T 1.2v 650mah AAA size NiMH batt cell ea 2.99
AA-FB 1.2v 1400mah AA NiMH batt w/tabs D,ea 1.99
4-AA-220-BH 4pk 1.2v 2200mah AA NiMH cells Δ 8.99
4-AA-230 4pk 1.2v 2300mah AA NiMH cells Δ 9.99
4-AA-250-BH 4pack 1.2v 2500mah AA NiMH cells 12.99
MHS-DC-124 Cig adapter; MH-C124S/C204F Δ .49
MH-K5000 Quick cgr/conditioner w/4 AA2500 39.99
MH-C204F8AA22 Charger/8 AA2200/car adapt Δ 44.99
MH-BP-7 13.2v 1000mah Icom nickel hydride 69.99
MH-BP-8 8.4v 1200mah Icom nickel hydride 59.99

## Maha - continued

AES Price

MH-BP-8H 8.4v 1800mah Icom nickel hyd ...Δ 49.99
MH-BP-83 7.2v 1300mah Icom nickel hydride 49.99
MH-BP-173 9.6v 650mah Icom nickel hydride 69.99
MH-BP-180 7.2v 1000mah Icom nickel hydride 49.99
MH-BP-196M 9.6v 1350mah Icom nick hyd Δ 19.99
MH-BP-199 6v 700mah Icom nick hyd/clip ..Δ 29.99
MH-BP-200 9.6v 680mah Icom nick hydride/clip 59.99
MH-CNB-152 12v 1000mah Sta nickl hydride Δ 39.99
MH-FNB-12 12v 1000mah Yaesu nickel hydride 59.99
MH-FNB-17 7.2v 1000mah Yaesu nickel hydride 49.99
MH-FNB-27 12v 900mah Yaesu nickel hydride 59.99
MH-FNB-38 9.6v 650mah Yaesu nickel hydride 59.99
MH-FNB-41 9.6v 1000mah Yae nick hyd/spg clip 55.99
MH-FNB-V47 7.2v 1800mah Yae nick hyd/spg clip 69.99
MH-FNB-V57 7.2v 1500mah Yae nickel hydride 49.99
MH-FNB-58LI 1200mah li-polymer; Yae VX5R 59.99
MH-FNB-72 9.6v 1700mah Yae nickel hydride . 59.99
MH-PB-8 12v 1300mah Kenwood nickel hydride 62.99
MH-PB-17 12v 1300mah Kenwood nickel hydride 69.99
MH-PB-18 7.2v 1300mah Ken nick hyd; wall cgr only 49.99
MH-PB-32 6v 1000mah Kenwood nickel hydride 47.99
MH-PB-34 9.6v 1000mah Kenwood nickel hydride 57.99
MH-PB-39 9.6v 1050 mah Ken nickel hyd/clip . 59.99
MH-PB-39H 6v 1800mah Ken nickel hyd/clip .. 59.99
MH-PB-42LI 1800mah li-polymer; Ken THF6A 69.99
MHS-CW4 Clip-leads; external charging;MHC777 Δ 2.99
MH-C777 Plus II Univ cgr/analy; lith/nicd/nimh 74.99
MH-C888 Univ drop-in rapid cgr/cond; nicad/nimh 59.99
MHS-C800U External charger pin shell ...† .49
MHS-C801 Cup; T2/W32/TH22/79/FT10/50 7.99
MHS-C802 Cup; IC02AT/TH78/FT470/530 Δ 1.99
MHS-C803 Cup; Kenwood TH-D7A/G71A .... 7.99
MHS-C804 Cup; Icom IC-T8A/T81A .....Δ 1.99
MHS-C805 Cup; Yaesu FT-11/41/51R .....Δ 2.99
MHS-C806 Cup; Ali 195/580/F1/G5/V5/etc 7.99
MHS-DC-777 Cig lighter cord ..... 5.99
MH-101-I1 Cgr;Ico157/160/174/131/2/Mah 132B/G D .99
MH-101-Y1 Cgr;Yae 10/11/12/17/25/27/Mah 12/27 D .99
MH-800K 500mw spkr/mic w/clip; Kenwood . 19.99
MH-800S 500mw spkr/mic/clip; Ali/Ico/Sta/Yae 19.99
MH-800Y 500mw spkr/mic; Yae FT50/VX1R .. 24.99
MHS-K1 Ken 25/26/75/77 adapt; A301/302 ....D .19
MHS-K2 Ken TH22/79 adapter; A301/302 ...D .19
MHS-S1 ADI/Standard adapt; A301/302 .....D .19
MHS-Y3 Yae FT11/41/51 adapt; A301/302 D .19

## MALDOL (MAL)

AH-14 20m telescoping ant w/BNC; FT-817... $ 45.99
AH-28 10m telescoping ant w/BNC; FT-817... 45.99
AH-C7 40m loading coil only w/BNC; FT-817 33.99
AH-C14 20m loading coil only w/BNC; FT-817 33.99
AH-C21 15m loading coil only w/BNC; FT-817 33.99
AH-C28 10m loading coil only w/BNC; FT-817 33.99
AH-R Telescoping whip for AH-C7/14/21/28 17.99
AH-510R 6/2m/440 37" BNC tele whip; FT-817/HT 59.99
AH-510R/SMA 6/2m/440 37" SMA tele whip .D 34.99
AH-W100RX 70-900MHz 40" tele BNC rcv ant 32.99
AS-20 2m/440 8.5" superflex SMA antenna... 26.99
AS-25 2m/440 1" SMA antenna ..... 19.99
AS-30 2m/440 15" 0/2.15db superflex SMA ant 29.99
AX-50 2m/440 0/5db 21" mobile antenna .... 49.99
AX-75 2m/440 3.2/5.7db 30" mobile ant ..... 59.99
AX-95 2m/440 3.3/5.8db 38" mobile ant ..... 66.99
EM-B80 Small trunk/hatch/van door lip mt .. 25.99
EX-104B 2m/440 black 0/2.15db 15" mob ... 44.99
EX-104BNMO 2m/440 blk 0/2.15db 15" NMO 44.99
EX-107RB 2m/440 black 2.6/4.9db 29" mob 56.99
EX-107RBNMO 2m/440 blk 2.6/4.9db 29" NMO 56.99
EX-510B 6m/2m/440 blk 0/2.15/5.5db 37" mob 66.99
EX-510BNMO 6m/2m/440 blk 0/2.15/5.5db 37" NMO 66.99
FVS-50 Dlx 2-step 16' 9" cable w/UHF connects D 42.99

## Maldol - continued

AES Price

HMC-6S 20/15/10/6/2m/440 66" mobile ant 159.99
HMC-7C 40m loading coil for HMC-6S ..... 34.99
HVU-8 80/40/20/15/10/6/2m 8.6' vert w/radials 319.99
MH-209 2m/440 3" BNC duck ..... 23.99
MH-209SMA 2m/440 3" SMA duck ..... 23.99
MH-510 6m/2m/440 0/0/3.2db 20.75" SMA duck 37.99
MH-511 6m/2m/440 4" SMA duck ..... 33.99
MH-610 2m/220/440 0/1.8/3.2db 14" SMA duck 49.99
MK-30H Motorized tnk lip/hatch/van door mt 109.99
MK-RR Roof rack bracket for MK-30H ..... 19.99
PRM-T Large trunk/hatch/van door lip mt .... 33.99
SHG-140B 2m 4.1db 56" mobile antenna ...D 34.99
SHG-140BNMO 2m 4.1db 56" NMO mob ant D 34.99

## MEADE (MEA)

20211 NGC-70SP 70mm refractor telescope Δ $169.99
07139 1.25" 18mm WA lens .....Δ 39.99
07173-02 1.25" 15mm super Plossl lens Δ 39.99
07273 #126 1.25" 2x short-focus Barlow lens Δ 39.99
494 #494 Autostar controller; DS-EC-series ....D 4.99
07220 #933 45° 1.25" erecting prism .....Δ 39.99
07279 #670 dew shield .....Δ 9.99
07522 908B broadband nebula filter .....Δ 14.99

## MEADOW RIDGE (CRO)

### SOLID COPPERWELD ANTENNA WIRE

AN-122 100 feet No. 12 ..... $ 39.99
AN-123 150 feet No. 12 ..... 49.99
AN-124 250 feet No. 12 ..... 79.99
AN-126 500 feet No. 12 ..... 139.99
AN-128 1000 feet No. 12 ..... 239.99
AN-142 100 feet No. 14 ..... 29.99
AN-143 150 feet No. 14 ..... 39.99
AN-144 250 feet No. 14 ..... 49.99
AN-146 500 feet No. 14 ..... 89.99
AN-148 1000 feet No. 14 ..... 169.99
AN-181 250 feet No. 18 ..... 24.99
AN-182 500 feet No. 18 ..... 39.99

## MIDLAND (MID)

18-258 On glass mount mobile CB antenna . $ 19.99
21-406 Deluxe mobile speaker w/3.5mm plug 22.99
74-250C SAME handheld WX/hazard alert radio 49.99
WR-300 AM/FM/SAME WX/hazard alert radio/ps 59.99
NT-1 Nautico 1 5w VHF marine handheld .... 59.99
AVP-5 Accs;batt/cgr/dcadapt/acadapt/headset/mt 29.99
LXT-210VP 22ch 2w GMRS/FRS hh w/batts pair 44.99
GXT-500VP4 22ch 5w GMRS/FRS hh w/batts pair 94.99

## Miracle Antenna (MIA)

Ducker IL In-line HF rcv tuner; HH//QRP xmit $129.99
Miracle Whip 3.5-450MHz 57" QRP ant/tuner 129.99

## MIRAGE (MIR)

A-1015G 50-52 FM/SSB 10/150w amp/preamp $359.99
B-34 2m FM 2/35w amplifier; no mob bkt .... 79.99
B-34G 2m FM/SSB 2/35w amp/preamp ..... 99.99
B-310G 2m FM/SSB 4/100w amp/preamp .... 189.99
B-320G 2m FM/SSB 50/200w amp/preamp .. 439.99
B-1018G 2m FM/SSB 10/160w amp/preamp 369.99
B-2518G 2m FM/SSB 25/160w amp/preamp 299.99
B-2530G 2m FM/SSB 25/300w amp/preamp 699.99
B-5018G 2m FM/SSB 50/160w amp/preamp 299.99
B-5030G 2m FM/SSB 50/300w amp/preamp .. 669.99
BD-35 2m/440 4/45//4/35w HT amp ..... 149.99
B-24G 5/50w 2m HT dock boost amp/pre ..... 109.99
MI-1 Ico 2G/02/2/23 adapter; B24G/BD25 D 1.99
MI-2 Ico 2SAT/W2 adapter; B24G/BD25 ..Δ 2.99
MI-3 Ico W21AT/X21AT adapt; B24G/BD25 9.99
MK-1 Ken 25/26/75/77 adapt; B24G/BD25 Δ 1.99
MK-2 Ken 22/79 adapter; B24G/BD25 ..... 9.99
MY-1 Yae 23/411E/470 adapt; B24G/BD25 Δ 1.99

## Mirage - continued

AES Price

MY-2 Yae 26/415/530 adapt; B24G/BD25 Δ 1.99
C-22G 220 FM/SSB 2/20w amp/preamp ..... 159.99
C-211G 220 FM/SSB 2/110w amp/preamp ..... 329.99
C-1012G 220 FM/SSB 10/120w amp/preamp 329.99
C-1022G 220 FM/SSB 10/220w amp/preamp 699.99
C-2512G 220 FM/SSB 25/120w amp/preamp 309.99

D-15N 430 FM/SSB/ATV 2/15w type N amp ... 179.99
D-26N 440 FM/SSB 2/60w type N amplifier .. 269.99
D-1010N 440 FM/SSB 10/100w type N amp . 379.99
D-3010N 440 FM/SSB 30/100w type N amp . 349.99
D-1010-ATVN 430 ATV 10/100w type N amp . 399.99
RC-1* Remote control head w/18' cable ..... 45.99
*Not for B-23/C-22/D-26
RC-2 Rem ctl head/cable; B-XX18G ..... 45.99

The following Repeater Amplifiers are Special Order. Specify SO-239 or type N connectors.

A-1015NR 6m FM 2/80w type N amplifier ..... $549.99
A-1015R 6m FM 2/80w SO-239 amplifier ..... 529.99

C-211NR 220 FM .5/80w type N amplifier .... 619.99
C-211R 220 FM .5/80w SO-239 amplifier ..... 599.99
C-1012NR 220 FM 5/90w type N amplifier ... 619.99
C-1012R 220 FM 5/90w SO-239 amplifier .... 599.99
C-2512NR 220 FM 15/90w type N amplifier . 589.99
C-2512R 220 FM 15/90w SO-239 amplifier .. 569.99

D-1010NR 440 FM 4/80w type N amplifier ... 629.99
D-1010-ATVN-R 430 ATV 4/80w type N amp . 629.99
D-3010NR 440 FM 12/80w type N amplifier . 599.99

### PREAMPS

KP-1/10M 10m in shack preamp .....Δ $ 89.99
KP-1/6M 6m in shack preamp ..... 129.99
KP-1/2M 2m in shack preamp ..... 129.99
KP-1/440 440 in shack preamp ..... 129.99

KP-2/10M 10m mast mount preamp .....Δ 89.99
KP-2/6M 6m mast mount preamp ..... 179.99
KP-2/2M 2m mast mount preamp ..... 179.99
KP-2/440 440 mast mount preamp ..... 179.99

## NCG (NCG)

Power Pocket 12v 2AH lead acid belt batt/cgr $ 66.99

## NCS (NCS)

NCS-3230 Multi-receiver receive console ..... $349.99
NCS-1514 Wall power supply; NCS-3230 ... 24.99
NCS-P2PH35-A Multi-rx/spkr out set 6 cables 26.99
NCS-MRx2MS-A 3240 & 3230 interface cbl kit 49.99
NCS-3240 Multi-switcher audio device ..... 299.99
NCS-1512 Wall power supply; NCS-3240 ... 12.99
NCS-LoZNC Unterminated interface cable . 17.99
NCS-LoZ8PI-I Icom 8-pin interface cable . 24.99
NCS-LoZRJ45-I Icom modular interface cable 23.99
NCS-LoZ8PI-K Kenwood 8-pin interface cable 24.99
NCS-LoZRJ45-K Kenwood modular interface cbl 23.99
NCS-LoZ8PI-Y Yaesu 8-pin interface cable 24.99
NCS-LoZRJ12-Y Yaesu modular interface cbl 23.99

## Night Owl Optics (NOO)

NODS-5 5x48 night vision scope w/illuminartor Δ $199.99
NOCA-42 Camera adapter .....Δ 29.99
NOXG-2 3x G2 night vision scope w/illuminator Δ 849.99
NOCA-42 Camera adapter .....Δ 29.99
NONW24-BPHT 2.4x night vision/illuminator Δ 119.99

## NORCOMM (NOR)

NC-101 Tunable CTCSS encoder ..... $ 21.99
NC-104 Programmable CTCSS encoder ..... 26.99
NC-106 Prog CTCSS encoder/decoder ..... 62.99
NC-401 Sub-miniature DTMF decoder ..... 62.99

## Oregon Scientific (ORE)

PE-319 Pedometer with personal security ..D $ 14.99
WMR-112A Wireless weather station .....D 139.99

AES Price

## OUTBACKER (OUT)

OB-8 75-10m 300w PEP 6' 8-band mobile ant $319.99
OB-8HP 75-10m 500w PEP 6' 8-band mob ant 329.99
OB-S8 75-10m 300w PEP split ant/storage bag 329.99
OB-8TRI 75-10m 300w PEP 3pc 6' port ant/bag 339.99

Joey 80-2m 20w antenna w/counterpoise .... 299.99
MicroMount Tripod system for Joey..... 49.99
OB-M 75/40/20/17/10m/HF marine 300w PEP 6' 449.99
Perth 75-10m 150w PEP 7.5' mobile ant ..... 329.99
Perth Plus 75-10m+6m/2m 150w PEP 6' mob ant 329.99
Stealth Plus 75-10m+6/2m 100w PEP 4' ant 319.99

Outreach 160-10m 300w PEP 12' antenna ... 419.99
Outreach 500 80-6m 600w PEP 12' antenna 449.99
Outpost Base tripod mtg system for mobile ant 199.99

OB-SB ⅜-24 spring and ½" hole base ..... 129.99
Diamond K-400-3/8C ⅜-24 trunk mt, 6' coax 69.99
Diamond C-110 10' ext cable; K-400-3/8C 14.99

## Palomar Engineers (PAL)

PT-340 Tuner-Tuner (use with ant tuner) ..... $ 99.99
RFI-4 RF interference kit ..... 25.99
VLF-A VLF converter; 10-500 KHz to 80m ..... 99.99
VLF-S VLF conv; 10-500 KHz to 4-4.5 MHz .... 99.99

## PALSTAR (PLS)

AT-1KM 600w T-match differential tuner/crossneedle mtr $379.99
AT-4K 2.5kw T-match edgewound roller ind tuner 895.99
AT-5K 3.5kw T-match ceramic roller ind tuner 1195.99
AT-1500CV 750w T-match ceramic roller ind tuner 459.99
AT-1500DT 750w differential antenna tuner . 479.99
AT-AUTO 1500w automatic antenna tuner .... 1195.99
BT-1500A 750w dual edgewound roller ind tuner 695.99
ZM-30 1-30MHz antenna analyzer ..... 369.99

## PAR (PAR)

SK-144 Stacking harness for OA-144 .....Δ $ 19.99
SK-432 Type N stacking harness; OA-432 ....Δ 29.99
UHFDN450 440 dual band notch filter .....Δ 39.99
VHFDN152 2m dual band notch filter .....Δ 49.99
VHFDN152HT 2m dual band HT notch filter Δ 44.99

## PENETROX (PEN)

Penetrox A 4 oz tube for antennas ..... $ 12.99

## POLYPHASER (PLY)

### LIGHTNING PROTECTION

IS-50NX-C2 125-1000 375/125/50w N flange $ 62.99
IS-50UX-C0 1.5-400 2kw/375/125w flange mt 62.99
IS-50UX-C1 50-700MHz 375/125w flange mt 62.99
IS-B50LN-C2 125-1000 375/125/50w N bulkhead 65.99
IS-B50LU-C0 1.5-400 2kw/375/125w bulkhead 65.99
IS-B50LU-C1 50-700 375/125w bulkhead mt 65.99

FB Adapter Flange to bulkhead mt adapter Δ 2.99

PLDO-120US15A 120v 15A power protector . 169.99
PLDO-120US20A 120v 20A power protector . 199.99

IS-RCT 8-wire rotor control protector ..... 99.99
J-1 ½" to 1⅓" bronze transition clamp .... 11.99
J-2 1½" to 2¼" bronze transition clamp Δ 9.99
IS-SPTL Single phone line protector ..... 77.99

CS112-25 25' 1½" copper strap ..... 26.99
CS112-50 50' 1½" copper strap ..... 52.99
CS112-100 100' 1½" copper strap ..... 101.99
CS3-25 25' 3" copper strap ..... 57.99
CS3-50 50' 3" copper strap ..... 101.99
CU-SPGP Copper single point ground panel . 88.99
TK-2 1½" strap to Rohn twr corrosion free clamp 8.99
TK-3 1½" strap-2¼" to 3¾" mast corr free clamp Δ 7.99

1C-112S #6-#1 wire to 1½" strap clamp bond 14.99
58R-112S 1½" strap to ⅝" gnd rod clamp bond 15.99
MSC-3 Junc; 2+ 1½" or 3" strap clamp bond . Δ 8.99

UNI-KIT 2CT Gnd kit; coax to alum/tin/galv Δ 27.99

## Polyphaser - continued

AES Price

UNI-KIT 2TC Gnd kit; galv twr leg to copper Δ 27.99
UNI-KIT 2CC Ground kit; coax to copper ..... 45.99

CCK Copper cleaning kit; 4 oz can, brush ..... 28.99
LPGS Lightning Protection/Grounding book ... 20.00

## PREMIER (PRE)

AL-800 2m/440 34" BNC rubber duck ant .... $ 29.99
RD-2 2m/440 2" BNC duck ..... 14.99
RD-2SMA 2m/440 2" SMA duck ..... 15.99
RD-8 2m/440/900 6.5" BNC duck ..... 14.99
RD-9 2m/440/900 7" BNC duck ..... 18.99
RD-9SMA 2m/440/900 7" SMA duck ..... 20.99
RD-78 2m/440/900 15" BNC whip ..... 19.99
RD-98 2m/440 17" BNC whip ..... 24.99
RD-98SMA 2m/440 17" SMA whip ..... 27.99

SPM-100 Spkr/mic; ADI/Alinco/Icom/Yaesu ... 31.99
SPM-101 Spkr/mic for Kenwood ..... 31.99
SPM-102 Spkr/mic; Yaesu FT-50R/VX-1R/5R 31.99
SPM-400A Boom/mic; ADI/Alinco/Icom/Yaesu 39.99
SPM-402A Boom mic; Yae FT-50R/VX-1R/5R 39.99

## PRO AM by VALOR (VAL)

### ASTATIC MOUNTS

AST-MMK Heavy duty 3/8-24 magnet mt kit . $ 29.99
AST-NMO NMO mounting adapter ..... 6.99
AST-SO239 SO-239 mounting adapter ..... 6.99
AST-TMK Universal 3/8-24 trunk mount kit ... 29.99
AST-NMO NMO mounting adapter ..... 6.99
AST-SO239 SO-239 mounting adapter ..... 6.99

### VHF/UHF ANTENNAS ONLY (No Mounts)

MO144-440 2m/440 antenna only ..... $ 21.99
PAQA 136-515 MHz ¼ wave antenna only ..... 10.99
PHB-144 2m ⅝ wave 3 db antenna only ..... 29.99

### MOUNTS ONLY FOR ABOVE ANTENNAS

PAMB Black low profile mag mount w/coax .. $ 24.99
PAN38 ⅜-24 antenna to NMO mt adapter ..... 14.99
PAS ¾" surface mount w/coax ..... 19.99
PASMO ¾" surface mt only (no coax) ..... 7.99
PAT-2 No hole trunk mount w/coax ..... 19.99
PAT-2B Black no hole trunk mount w/coax .... 19.99

### OTHER VHF/UHF ANTENNAS & MOUNTS

100ADN SO-239 horizontal mirror mt ..... $ 10.99
101ADN HD alum mirror mt w/SO-239 ..... 10.99
105AD/105ADT Hvy duty ⅜" mount assembly 6.99
105HD/105HDT Heavy duty mount assembly 3.99
120 Sawtooth hump mt for mobile radios ..... 9.99
301 4" low profile ⅜-24 magnet mt w/coax .. 16.99
401 5" low profile ⅜-24 magnet mt w/coax .. 19.99
DAK-AD Mt for 2 vert ants or horizontal dipole 13.99
GM-144 2m 2.5db on glass antenna ..... 29.99
GM-270 2m/440 2.6/6.3db on glass antenna 59.99
TGMKD On glass replacement mtg kit ..... 8.99
MM-3401 Maxi-mag mt ⅜-24/NMO kit (3-5" mags) 59.99
SS-100MOT 3-way NMO mirror mt w/coax ..... 23.99

CX-144 2m ⅝ wave 3db ⅜-24 whip ..... 19.99
MM-270B 2m/440 micro mag mt ant w/BNC 19.99
PM-144-440BN 2m/440 BNC mag mt ant .... 29.99
PMM-3B Micro mag mt monitor ant w/BNC .. 19.99
TGS 112-1200MHz on-glass scanner ant w/BNC 34.99
VAA-002B 144-450 black ¼ wv mag mt ant . 23.99
VAA-002BBN 144-450 black ¼ wv BNC mag ant 24.99

### MOBILE HF ANTENNAS (No Mounts)

AB-5/PHF-SB 75/40/20/15/10m mobile ant D $109.99

PHF-160B 160m 8' ⅜-24 whip..... 89.99
PHF-75B 75m 8' ⅜-24 whip (4' coil, 4' whip) 29.99
PHF-40B 40m 8' ⅜-24 whip (4' coil, 4' whip) 23.99
PHF-30B 30m 8' ⅜-24 whip (4' coil, 4' whip) 23.99
PHF-20B 20m 8' ⅜-24 whip (4' coil, 4' whip) 23.99
PHF-17B 17m 8' ⅜-24 whip (4' coil, 4' whip) 23.99
PHF-15B 15m 8' ⅜-24 whip (4' coil, 4' whip) 23.99



AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## Pro Am - continued

AES Price

**PHF-12B** 12m 8' ⅜-24 whip (4' coil, 4' whip) 23.99
**PHF-10B** 10m 8' ⅜-24 whip (4' coil, 4' whip) 23.99
**PHF-6B** 6m 58" ⅜-24 whip ..... 23.99
**103S** Quick disconnect/5 twist lock connectors 24.99

### ASTATIC MOBILE HF ANTENNA (No Mount)

**AST-6BTV** 75/40/20/15/10/6m mobile ant .... $119.99

## QRZ (WAL)

**Ham QRZ** US & international calls plus programs $ 24.99

## QSL Card Holders (ART)

**QSL Card Holders**, pack of 3, 20 cards/holder $ 18.99

## RCA (RCA)

**108**/FC60 F-56 connector w/o-ring for RG-6.. $ .49
**ACAC-5960** TV coax hex crimp tool ..... 17.99
**AH-19** 6' audio cable w/RCA plugs ..... 2.99
**AH-211** 25' audio cable w/RCA plugs .....D 6.99
**ANT-1020** VHF TV/UHF TV/FM indoor antenna 19.99
**RP-3710** AM/FM clock radio ..... 24.99
**TA-25** 25db VHF/UHF TV/FM distribution amp 19.99
**VH-84** 6' audio/video cable w/gold RCA plugs 5.99

## RF PARTS (See Diamond)

## RADIOWAVZ (RAD)

**160MC/BALUN** 250' 160m dipole w/1:1 balun $ 75.99
**80MC/BALUN** 130' 80m dipole w/1:1 balun .. 55.99
**40MC/BALUN** 66' 40m dipole w/1:1 balun .... 45.99
**30MC/BALUN** 46' 30m dipole w/1:1 balun .... 45.99
**20MC/BALUN** 32' 20m dipole w/1:1 balun .... 37.99
**17MC/BALUN** 26' 17m dipole w/1:1 balun .... 33.99
**15MC/BALUN** 22' 15m dipole w/1:1 balun .... 33.99
**12MC/BALUN** 19' 12m dipole w/1:1 balun .... 33.99
**10MC/BALUN** 17' 10m dipole w/1:1 balun .... 33.99
**75M-DBZ** 135' 75m double bazooka antenna 75.99
**40M-DBZ** 70' 40m double bazooka antenna . 45.99
**G5RV** 102' G5RV antenna, 32' tall ..... 36.99
**G5RV JR** 51' G5RV antenna, 14' tall ..... 25.99
**G5RV LITE** 67' G5RV antenna, 32' tall ..... 40.99
**G5RV MAX** 204' G5RV antenna, 56' tall ..... 65.99

## RAMSEY (RAM)

**AR-1** Aircraft receiver kit .....D $ 24.99
**FR-1** FM broadcast receiver kit .....D 14.99
**VS-1** Voice activated switch kit .....Δ 6.99

## Robinson Racing (RRP)

**1422** 48P absolute pinion 22T .....Δ $ 2.99

## SGC (SGC)

**52-96** SG-500 1.8-24MHz 12v 500w PEP amp 1249.99
**51-82** Fan kit; continuous duty xmit SG500 269.99
**54-14** SG-230 200w 1.8-30 MHz 12v Smartuner 489.99
**54-15** SG-235 500w 1.8-30MHz 12v Smartuner 1169.99
**54-18** SG-237 100w PEP HF+6m mini Smartuner ... 359.99
**54-22** SG-239 200w Smartuner ..... 179.99
**54-61** 25' extension cable; Smartuners ..... 60.99
**54-62** 50' extension cable; Smartuners ..... 90.99
**54-63** SmartLock; SG230/237/239 after 9/1/93 59.99
**54-23** Stealth Kit SG-237 w/loop antenna .D 349.99
**54-25** MAC-200 Smartuner/ant switch combo 249.99
**54-26** SG-211 60w mini Smartuner .....D 169.99
**55-28** SG-307 1.8-60 7' mobile whip & mt .. 449.99
**55-69** SG-307 whip only ..... 265.99
**55-47** QMS-2 Quick mt sys/SG230/9' SG303 whip 899.99
**55-50** QMS-37 Quick mt sys/SG-237, less whip 549.99
**70-14** ADSP2 DSP noise reduction speaker .. 129.99

## SAMLEX (SAM)

**FCP-1000** 1A ps w/cigarette lighter socket ..... $ 9.99
**SEC-1223** 23A switching ps w/fan, 24A surge 99.99
**SI-175HP** 175w 12vdc-115vac inverter ..... 29.99
**SI-400HP** 400w 12vdc-115vac inverter ..... 49.99

## Samlex - continued

AES Price

**SPS-1204UL** 3.5A switching ps+cig socket .. 29.99

## SANGEAN (SAN)

**ATS-404** AM/FM/SW portable receiver w/case ... $ 79.99
**ATS-505P** AM/FM/SW portable receiver ..... 129.99
**ATS-606AP** AM/FM/shortwave portable receiver 139.99
**ATS-909** AM/FM/shortwave portable Rcvr ..... 249.99
**DT-200V** AM/FM/VHF TV sound dig port Rcvr 69.99
**PR-D2** AM/FM portable dark grain "Q" radio 99.99
**PT-50** AM/FM/SW portable receiver ..... 79.99
**PT-80** Deluxe AM/FM/SW portable receiver .... 159.99
**RCR-2** AM/FM atomic clock radio ..... 69.99
**WR-1** AM/FM wooden cabinet receiver ..... 119.99
**ANT-60** Portable wind-up SWL antenna ..... 13.99

## SCANCAT (SCA)

**Lite-Plus** Scanner programming software .... $ 29.99
**Gold for Windows** Dlx scanner prog software 99.99

## SEQUOIA (SEQ)

**POCKET PC REF** Pocket PC reference book ... $ 15.99
**POCKET REF** Pocket reference book ..... 12.99
**WinRef 98-95** Windows pocket reference book Δ 9.99

## SHAKESPEARE (SHA)

**396-1** 3db 5' VHF marine ant, less mount .... $ 79.99
**5101** 6db 8' VHF marine ant, less mount ..... 69.99
**5202** 6db 8' VHF mar ant/chrome ferrule, less mt 99.99
**5206-C** Econo 8' VHF mar ant/chrome ferrule, no mt 59.99
**495** White plastic lift & lay mount .....Δ 2.99
**4187** Stainless steel ratchet mount ..... 39.99
**5215** 3db 36" sailboat VHF marine ant w/mt 49.99
**420** 3db 5' VHF marine ant w/fold-down mt . 79.99
**PL-259-CP-G** Solderless PL-259; RG-8X/58 .. 6.99
**PL-258-CP-G** Solderless splice; RG-8X/58 .... 9.99

## Smiley Antenna (SMI)

**270A** 2m/220/440 gain telescopic whip ..... $ 19.99
**270A/SMA** 2m/220/440 gain tele whip w/SMA 19.99
**5/8 SLD-2** 2m ⅝ Slim Duck rubber ant ..... 19.99
**5/8 SLD-220** 220 ⅝ Slim Duck rubber ant ..... 19.99
**5/8 SLD-440** 440 ⅝ Slim Duck rubber ant ..... 19.99
**5/8 SLD-2 Combo** 2m ⅝ duck & stubby ant .. 29.99
**5/8 SLD-220 Combo** 220 ⅝ duck & stubby ant 29.99
**5/8 SLD-440 Combo** 440 ⅝ duck & stubby ant 29.99
**FLX 1/2 WAV-2M** ½ wv 2m BNC whip/flex coil 25.99
**RD-2** 2m rubber duck antenna ..... 15.99
**RD-220** 220 rubber duck antenna ..... 15.99
**RDMD-2** 2m mini rubber duck antenna ..... 15.99
**RDMD-220** 220 mini rubber duck antenna .Δ 2.99
**RDMD-440** 440 mini rubber duck antenna ... 15.99
**RDS-2** 2m stubby rubber duck antenna ..... 15.99
**RDS-220** 220 stubby rubber duck antenna ... 15.99
**RDS-440** 440 stubby rubber duck antenna ... 15.99
**SD-2** 2m Slim Duck thin rubber antenna ..... 15.99
**SD-220** 220 Slim Duck thin rubber antenna . 15.99
**SL-440** 440 slimline type duck ..... 15.99
**SS-II** Super Stick 2m ⅝ wv telescopic ant ..... 19.99
**SS-III** Super Stick 220 ⅝ wv telescopic ant .. 19.99
**SS-IV** Super Stick 440 ⅝ wv telescopic ant ... 19.99
**SS-II/Combo** 2m ⅝ wv telescopic & stubby ant 29.99
**SS-III/Combo** 220 ⅝ wv telescopic & stubby ant 29.99
**SS-IV/Combo** 440 ⅝ wv telescopic & stubby ant 29.99
**TAQ-2** 2m ¼ wave stainless whip ..... 10.99
**TAQ-220** 220 ¼ wave stainless whip ..... 10.99
**TAQ-440** 440 ¼ wave stainless whip ..... 10.99
**TS** Thin Stick 2m/220 ⅜ wave telescopic whip 16.99

## SOLARCON (SOL)

**A-99** 10m/CB 17' 8" fiberglass base ant ..... $ 79.99
**GPK-1** Ground plane radial kit ..... 59.99

AES Price

## SONY SHORTWAVE (SON)

**ICF-SW07** AM/FM/SW micro Rcvr w/ps .....D $399.99
**ICF-SW11** AM/FM/SW compact receiver ..... 49.99
**ICF-SW12** AM/FM/SW travel Rcvr/world clock ... 89.99
**ICF-SW35** AM/FM/SW portable receiver ..... 89.99
**ICF-SW40** AM/FM/SW portable receiver .....D 99.99
**ICF-SW7600GR** AM/FM/SW portable receiver 159.99
**AN-LP1** Folding active loop receive ant w/case 89.99
**DCC-E260** Mobile DC adapter; ICF-SC1 .....D .49

## STICKY PAD (STI)

**13810** 7¼" x 4¼" sticky pad for handhelds, etc $ 5.99
**13820** 8¾" x 6⅞" sticky pad for larger items 9.99

## Synthetic Textiles (SYN)

**100'** 3/32" black double braided rope ..... $ 7.99
**100' 3/16** 3/16" black double braided rope ..... 16.99
**100' 5/16** 5/16" black double braided rope ..... 22.99
**350'** 3/8" black double braided rope ..... 44.99

## TV GUARDIAN (TVG)

**TV Guardian** TV/video foul language filter ...Δ $ 29.99

## Terk Technologies (TER)

**Advantage** Indoor passive fine-tunable AM ant $ 49.99
**FM-50** Amplified indoor/outdoor FM ant kit.Δ 19.99
**HDTV-I** Indoor UHF/VHF HDTV antenna ..... 39.99
**LF-30S** 2.4GHz wireless vid/aud sys/rem features 99.99
**LF-IRX** Remote control extender ..... 39.99
**MOD-41** 4-input video switch/converter ..... 39.99
**PI-B** Indoor AM/amplified FM loop antenna .. 49.99
**Tower** Indoor AM/amplified FM tower antenna 24.99
**TSP-6** 8 outlet AC/TV/telephone surge protector D 14.99
**TV-42** Clip-on mini dish mt amp TV ant; 2 LNB dish 49.99
**TV-55** Indoor/outdoor TV antenna ..... 99.99
**TV-MAST** TV antenna mast mount kit .....D .49
**VR-1** TV volume regulator ..... 49.99
**VS4-MOD** 4-input remote video switch/converter D 39.99
**VS4-MOD+** 4-input remote video switch/converter 49.99

## TESTORS (TES)

**800001** 1/32 radio control mini cooper/metal Δ $ 29.99
**800002** 1/32 radio control audi tt coupe/metal Δ 19.99

## Times Microwave (TMS)

**LMR-400** Standard ⅜" coax cable .....per ft. $ .70
**LMR-400** .....**500** ft. Roll 269.99
**LMR-400-DB** Watertight ⅜" coax cable per ft. .79
**LMR-400-DB** .....**500** ft. Roll 309.99
**LMR-400-UF** UltraFlex ⅜" coax cable ...per ft. 1.05
**LMR-400-UF** .....**500** ft. Roll 419.99

## TIMEWAVE (TIM)

**ANC-4** RF noise canceller ..... $209.99
**AC-1** 12vdc 600 ma adapter ..... 15.99
**AC-5** 12vdc 1.7A desktop ps ..... 22.99
**DSP-599zx** All-mode DSP noise filter ..... 436.99
**AC-5** 12vdc 1.7A desktop ps ..... 22.99
**PK-96/100K** 9600 baud controller/128K RAM 219.99
(CSS) **PKTerm for Windows** Soft; PK-96/232 99.99
**AC-1** 12vdc 600 ma adapter ..... 15.99
**AC-5** 12vdc 1.7A desktop ps ..... 22.99
**PK-232/PSK** Multimode controller w/sound card 531.99
(CSS) **PKTerm for Windows** Soft; PK-96/232 99.99
**AC-5** 12vdc 1.7A desktop ps ..... 22.99
**TZ-900N** Antenna analyzer, type N special order 1399.99
**TZ-900S** Antenna analyzer, SO239 special order 1399.99

## TRAXXAS (TRX)

**2410** Bandit RTR electric buggy w/TQ radio Δ $ 99.99
**3606** Stampede RTR electric monster truck w/ESC Δ 149.99
**3706** Rustler RTR electric stadium truck w/ESC Δ 129.99
**3710** Rustler RTR electric stadium truck w/TQ Tx Δ 109.99
**3906** E-Maxx RTR electric monster truck ....Δ 289.99

AES Price

## TRINITY (TRN)

RC-2141 Monster horsepower stock pro .....Δ $ 29.99

## TRIPP LITE (TRI)

ISOBAR-8 ULTRA 8 outlet surge suppress/LEDs $ 79.99
SUPER-7 7 outlet surge suppressor ..... 19.99
SUPER-7+TEL 7 outlet/fax modem surge ..... 29.99

## TUBES (TUB)

6146B Tube ..... $ 26.99
12BY7A Tube ..... 12.99
3-500ZG-RFP High dissipation tube (3-500Z) 179.99
572B Tube ..... 49.99
811A Tube ..... 19.99

## US TOWER (UST)

### FREE STANDING CRANK-UPS (not for T²X)

TX-438 38' crank-up tower .....T 1399.99
TX-455 55' crank-up tower .....T 1929.99
TX-472 72' crank-up tower .....T 3169.99
TX-472MDP 72' crank-up w/motor drive .....T 5099.99
TX-489MDPL 89' crank-up w/motor drive ...T 8269.99

### FREE STANDING HD CRANK-UP TOWERS

HDX-538 38' crank-up tower .....T 1659.99
HDX-555 55' crank-up tower .....T 2899.99
HDX-572MDPL 72' crank-up w/motor drive .T 7579.99
HDX-589MDPL 89' crank-up w/motor drive .T 9919.99
HDX-689MDPL 89' HD crank-up w/motor ....T 19159.99
HDX-5106MDPL 106' HD crank-up w/motor T 20849.99

### COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS 33' crank-up tower .....T 1489.99
TMM-433HD 33' HD crank-up tower .....T 1799.99
TMM-541SS 41' crank-up tower .....T 1959.99

### ACCESSORIES FOR CRANK-UP TOWERS

CX-2 Coax arms (2) for 2-section tower ..... $ 68.99
CX-3 Coax arms (3) for 3-section tower ..... 94.99
CX-4 Coax arms (4) for 4-section tower ..... 139.99
CX-5 Coax arms (5) for 5-section tower ..... 189.99
CX-6 Coax arms (6) for 6-section tower ..... 239.99
HDP Service platform .....T 1369.99
IV-16 Inverted vee arm for MA's ..... 51.99
M-5 2" OD 5' mast extension for MA's ..... 51.99
M-10 2" OD 10' mast .....T 94.99
M-15 2" OD 15' mast .....T 129.99
M-15R 2" OD 15' reinforced mast .....T 199.99
M-20 2" OD 20' mast .....T 169.99
M-20R 2" OD 20' reinforced mast .....T 249.99
CM-20 2" OD 20' cromolly mast .....T 519.99
MD-75 Heavy duty 1 HP motor drive .....T 1119.99
MDP-750* Pull-down drive; TX-472/HDX-555 T 1739.99
MDPL-1000* Pull-down drive; HDX-572 .....T 2359.99
*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately
MRF Mast raising fixture ..... 329.99
MCL-100 Limit switch package ..... 529.99
RMC-1000 Remote control w/limit switch ..... 1119.99
RP-3 Rotor plate for 10" section ..... 52.99
RP-4 Rotor plate for 12½" section ..... 63.99
RP-5 Rotor plate for 15" section ..... 70.99
TRX-80 Raising fixture; TX-438/455;HDX-538/555 T 499.99
TRX-80HD Raising fixture;TX-472/489;HDX-572/589 T 699.99
TRX-100HD Raising fixture; HDX-689/5106 T 899.99
TB-2US Thrust bearing; 2" mast w/2 flange holes 119.99

### MA-SERIES TUBULAR TOWERS

MA-40 40' crank-up tubular tower .....T 1109.99
MA-550 55' crank-up tubular tower .....T 1719.99
MA-550MDP 55' crank-up tubular w/motor T 3279.99
MA-770* 70' crank-up tubular tower .....T 2829.99
MA-770MDP* 70' crank up tubular w/motor T 4479.99

## US Tower - continued

AES Price

MA-850* 85' crank-up tubular tower .....T 4379.99
MA-850MDP* 85' crank-up tubular w/motor T 6029.99
*Requires MAB or MARB-series base

### MA-SERIES ACCESSORIES

CX-2M Coax arms (2) for MA-40 ..... $ 72.99
CX-3M Coax arms (3) for MA-550 ..... 99.99
CX-4M Coax arms (4) for MA-770 ..... 169.99
CX-5M Coax arms (5) for MA-850 ..... 199.99
MAB-40 Hinged base for MA-40 .....T 409.99
MAB-550 Hinged base for MA-550 .....T 519.99
MAB-770 Hinged base for MA-770 .....T 629.99
MAB-850 Hinged base for MA-850 .....T 769.99
MAF-40 Raising fixture for MA-40 ..... 269.99
MAF-550 Raising fixture for MA-550 .....T 369.99
MAF-770 Raising fixture for MA-770 .....T 379.99
MAF-850 Raising fixture for MA-850 .....T 499.99
MARB-40 Rotor base accessory for MA-40 ..T 659.99
MARB-550 Rotor base accessory for MA-550 T 769.99
MARB-770 Rotor base accessory for MA-770 T 899.99
MARB-850 Rotor base accessory for MA-850 T 1099.99

**All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Visalia, California or Lincoln, Kansas via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.**

## UNADILLA (See W2AU)

## UNIDEN (UNI)

PC-68 Elite AM Mobile CB w/WX alert ..... $ 99.99
PC-68LTW AM Mobile CB w/WX alert ..... 79.99
PC-68XL AM Mobile CB ..... 74.99
PC-78 Elite AM Mobile CB w/WX alert ..... 119.99
PC-78LTW AM Mobile CB w/WX alert ..... 99.99
PC-78XL AM Mobile CB ..... 94.99
PRO-510XL AM Mobile CB ..... 39.99
PRO-520XL AM Mobile CB ..... 54.99
PRO-538W AM Mobile CB w/WX ..... 59.99

### UNIDEN BEARCAT

BC-244CLT 30 ch scanner w/instant WX ....D $ 99.99
BC-248CLT 50 ch scanner w/WX alert .....D 109.99
BC-278CLT 100 ch scan/800/SAME WX alert D 129.99
BC-340CRS 100 ch scanner w/SAME WX ..... 99.99
BC-350C 100 ch prog/service search w/AC ps 99.99
BC-796D 1000 ch pock/trunk/SAME WX/dig D 549.99
BC-898T 500 ch prog scanner/trunking/preprog 209.99
BCT-8 Preprog warning scan/800/trunk/AC ps 179.99
BC-72XLT 100 ch pocket scanner ..... 99.99
BC-92XLT 200 ch prog pocket scanner/800 .. 119.99
AD-100 AC adapter/batt cgr; earlier scanners Δ 4.99
BC-003 Switch box for BC-002 .....Δ .49
BCI-25D Digital board for BC-785D/250D ..D 169.99
BP-180 Extra battery; BC-245XLT .....Δ 16.99
BP-200 Extra battery; BC-200XLT .....Δ 26.99
BP-205 Extra battery; BC-100XLT .....Δ 26.99
BP-250 Extra battery for BC-296D .....Δ 14.99
BP-2500 Extra battery; BC2500/3000 .....Δ 63.99
CRX-120 Desk charger; BC-245XLT .....Δ 24.99
LC-120 Carrying case; BC230XLT/245XLT ..Δ 19.99
NC-250D Carrying case for BC-296D .....Δ 29.99
SC-180B 100 ch sport pocket/800 MHz .....D 139.99
SC-200 200 ch sport pocket/800 MHz .....D 159.99
AD-70 Extra charger .....Δ 10.99

## Uniden - continued

AES Price

BP-120 Extra battery .....Δ 18.99
(KOS) QZ/99 Noise reduction headphones . 59.99
UA-502 Cig power cord .....Δ 11.99
SC-230 1600+ch pocket/800/SAME WX ..... 199.99
BC-246T 1600+ ch pocket scanner/trunking 229.99
BADG0687001 DC cord for BC-246T ..... 22.99
NC-246T Carrying case for BC-246T ..... 19.99
BR-330T 2500 ch pocket/trunking/race track 279.99
BCD-396T 3000+ch pocket/trunk/SAME/dig . 549.99

### MARINE

Atlantis-250 5w VHF marine handheld ..... $ 99.99
MHS-350 Waterproof 5w VHF marine handheld 149.99
Mystic 5w VHF marine handheld/GPS/DSC .... 299.99
Voyager 5w VHF marine handheld/lith ion batt 159.99
Oceanus-DSC 25w 90 ch VHF marine Xcvr/DSC 139.99
Polaris 25w VHF marine Xcvr w/hailer .....D 139.99
Solara-DSC 25w 90 ch VHF marine Xcvr/DSC 119.99
UM-525 25w VHF marine Xcvr w/hailer ..... 199.99
UM-625C 25w VHF marine Xcvr/color TFT/hailer 299.99

## Unified Microsystems (UNM)

VK-64 CW/voice keyer ..... $229.99
KC-4 CW cable for VK-64 to transceiver .... 9.99
VKC-8 8-pin audio cable for VK-64 to Xcvr 24.99
XT-4 Small size CW memory keyer ..... 69.99
KC-4 CW cable for XT-4 to transceiver ..... 9.99
W9XT Contest card for IBM PC & compatible 139.99
CCC-8 8pin mic contest card cable semi-kit 44.99

## Universal Towers (UNT)

4-30 4 sq ft wind load 30' alum tower .....T $342.99
9-30 9 sq ft wind load 30' alum tower .....T 459.99
12-30 12 sq ft wind load 30' alum tower ....T 604.99
21-30 21 sq ft wind load 30' alum tower ....T 719.99
23-30 23 sq ft wind load 30' alum tower ....T 951.99
35-30 35 sq ft wind load 30' alum tower ....T 1071.99
4-40 4 sq ft wind load 40' alum tower .....T 573.99
7-40 7 sq ft wind load 40' alum tower .....T 720.99
9-40 9 sq ft wind load 40' alum tower .....T 802.99
12-40 12 sq ft wind load 40' alum tower ....T 951.99
15-40 15 sq ft wind load 40' alum tower ....T 1063.99
21-40 21 sq ft wind load 40' alum tower ....T 1181.99
23-40 23 sq ft wind load 40' alum tower ....T 1414.99
4-50 4 sq ft wind load 50' alum tower .....T 807.99
5-50 5 sq ft wind load 50' alum tower .....T 918.99
7-50 7 sq ft wind load 50' alum tower .....T 1034.99
9-50 9 sq ft wind load 50' alum tower .....T 1149.99
15-50 15 sq ft wind load 50' alum tower ....T 1527.99
16-50 16 sq ft wind load 50' alum tower ....T 1648.99
4-60 4 sq ft wind load 60' alum tower .....T 1150.99
6-60 6 sq ft wind load 60' alum tower .....T 1411.99
7-60 7 sq ft wind load 60' alum tower .....T 1502.99
9-60 9 sq ft wind load 60' alum tower .....T 1611.99
3-70 3 sq ft wind load 70' alum tower .....T 1500.99
4-70 4 sq ft wind load 70' alum tower .....T 1844.99
6-70 6 sq ft wind load 70' alum tower .....T 1877.99
7-70 7 sq ft wind load 70' alum tower .....T 1962.99
3-80 3 sq ft wind load 80' alum tower .....T 2023.99
4-80 4 sq ft wind load 80' alum tower .....T 2342.99
2-90 2 sq ft wind load 90' alum tower .....T 2426.99
B-14 Base for tower ..... 74.99
B-18 Base for tower ..... 74.99
B-22 Base for tower ..... 113.99
B-26 Base for tower ..... 143.99
Extra 14" stubs (between base & tower) .set 14.99
Extra 18" stubs (between base & tower) .set 26.99
Extra 22" stubs (between base & tower) .set 42.99
Extra 26" stubs (between base & tower) .set 42.99
RFM-11 Flat roof mt for guyed tower ..... 49.99
RFM-14 Flat roof mt for guyed tower ..... 49.99



AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## Universal - continued

| | AES Price |
|---|---|
| **RFM-18** Flat roof mt for guyed tower | 77.99 |
| **RFM-22** Flat roof mt for guyed tower | 103.99 |
| **RFM-26** Flat roof mt for guyed tower | 138.99 |
| **R-11** Rotor mount | 34.99 |
| **R-14** Rotor mount | 52.99 |
| **R-18** Rotor mount | 69.99 |

**SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR**

| | |
|---|---|
| **11 Top** 11" top tower section T | 116.99 |
| **14 Top** 14" top tower section T | 145.99 |
| **18 Top** 18" top tower section T | 264.99 |
| **14 Taper** 14" taper tower section T | 128.99 |
| **18 Taper** 18" taper tower section T | 230.99 |
| **22 Taper** 22" taper tower section T | 343.99 |
| **26 Taper** 26" taper tower section T | 461.99 |
| **11 Straight** 11" straight tower section T | 114.99 |
| **14 Straight** 14" straight tower section T | 128.99 |
| **18 Straight** 18" straight tower section T | 230.99 |
| **22 Straight** 22" straight tower section T | 343.99 |
| **26 Straight** 26" straight tower section T | 461.99 |
| **HD35-40** 35 sq ft wind load 40' alum tower T | 1651.99 |
| **HD21-50** 21 sq ft wind load 50' alum tower T | 1761.99 |
| **HD9-60** 9 sq ft wind load 60' alum tower T | 1847.99 |
| **HD16-60** 16 sq ft wind load 60' alum tower T | 2224.99 |
| **HD21-60** 21 sq ft wind load 60' alum tower T | 2344.99 |
| **HD8-70** 8 sq ft wind load 70' alum tower T | 2078.99 |
| **HD12-70** 12 sq ft wind load 70' alum tower T | 2574.99 |
| **HD17-70** 17 sq ft wind load 70' alum tower T | 2808.99 |
| **HD21-70** 21 sq ft wind load 70' alum tower T | 2926.99 |
| **HD8-80** 8 sq ft wind load 80' alum tower T | 2659.99 |
| **HD9-80** 9 sq ft wind load 80' alum tower T | 2773.99 |
| **HD11-80** 11 sq ft wind load 80' alum tower T | 3151.99 |
| **HD12-80** 12 sq ft wind load 80' alum tower T | 3157.99 |
| **HD16-80** 16 sq ft wind load 80' alum tower T | 3388.99 |
| **HD4-90** 4 sq ft wind load 90' alum tower T | 2769.99 |
| **HD8-90** 8 sq ft wind load 90' alum tower T | 3267.99 |
| **HD11-90** 11 sq ft wind load 90' alum tower T | 3736.99 |
| **HD4-100** 4 sq ft wind load 100' alum tower T | 3709.99 |
| **HD8-100** 8 sq ft wind load 100' alum tower T | 3969.99 |
| **B-30** Base for HD tower | 211.99 |
| Extra **30" stubs** (between base & tower) .set | 63.99 |
| **RFM-30** Flat roof mt for guyed tower | 193.99 |
| **30 Taper** 30" taper tower section T | 581.99 |
| **30 Straight** 30" straight tower section T | 581.99 |

**SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR**

| | |
|---|---|
| **1-5/8SC** Flange bearing | 94.99 |
| **2-3/16SC** Flange bearing | 108.99 |
| **Top Plate** Flange plate welded to top section | 25.99 |
| **1-1/4" OD x 5 ft** aluminum mast T | 23.99 |
| **1-1/4" OD x 10 ft** aluminum mast T | 35.99 |
| **1-1/2" OD x 10 ft** aluminum mast T | 43.99 |
| **2" OD x 8 ft** aluminum mast | 52.99 |
| **2" OD x 16 ft** aluminum mast T | 96.99 |

**All UNIVERSAL TOWERS products are drop-shipped (shipped direct to you from the UNIVERSAL TOWERS factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Mt. Clemens, Michigan via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.**

AES Price

## VALOR (See PRO AM)

## VANCO (VCO)

| | |
|---|---|
| **370052** 3½ digit multimeter | $ 19.99 |
| **CL-3** Extra heavy duty alligator clip leads (10) | 6.99 |
| **HF-24RS** Scanner headphones w/dual volume | 19.99 |
| **SWR-1** SWR/field strength meter | 24.99 |
| **SWR-3** Mini SWR meter | 14.99 |

## VAN GORDEN (VAN)

| | |
|---|---|
| **Hi-Q 1:1** balun | $ 18.99 |
| **Hi-Q 4:1** balun | 18.99 |
| **Antenna center** insulator | 9.99 |
| **Antenna end** insulator pair | 6.99 |
| **Dog bone** type antenna insulator each | .99 |
| **NR-100** Nylon antenna guy rope 100 ft. | 6.99 |
| **NR-1000** Nylon ant guy rope 1000 ft. | 50.99 |
| **D-80** 80m 130' wire dipole antenna | 41.99 |
| **SD-80** Short 90' 80m wire dipole antenna | 46.99 |
| **D-40** 40m 66' wire dipole antenna | 38.99 |
| **SD-40** Short 45' 40m wire dipole antenna | 44.99 |
| **D-20** 20m 33' wire dipole antenna | 36.99 |
| **D-15** 15m 22' wire dipole antenna | 35.99 |
| **D-10** 10m 16' wire dipole antenna | 34.99 |
| **PD-4010** 40/20/15/10m 66' parallel dipole | 49.99 |
| **PD-4020** 40/20/15m 66' parallel dipole | 43.99 |
| **PD-8010** 80/40/20/15/10m 130' parallel dipole | 55.99 |
| **PD-8040** 80/40/15m 130' parallel dipole | 51.99 |
| **All Bander** Dipole 160-10m (use tuner) 135' ant | 35.99 |
| **Shorty** All Bander 160-10m (use tuner) 70' ant | 55.99 |
| **G5RV** Flat-top 3.5-30 102' ant/xmfr/100' cable | 60.99 |
| **G5RV-E** Flat-top 3.5-30 102' ant/31' twinlead | 35.99 |
| **G5RV JR** Flat-top 7-30 52' ant/17' twinlead | 30.99 |
| **G5RV-M** Flat-top 1.8-30 204' ant/65' twinlead | 60.99 |
| **Silver plated** teflon PL-259 | 2.99 |
| **N connector** Type N connector for 9913/8214 | 4.99 |
| **#14** Stranded hard drawn ant wire **100** ft. | 11.99 |
| **#14** Stranded hard drawn ant wire **150** ft. | 16.99 |
| **300 ohm** 1kw transmitting twinlead **100** ft. | 19.99 |
| **450 ohm** 18ga solid ladderline **100** ft. | 19.99 |
| **450 ohm** 18ga solid ladderline **1000** ft. | 149.99 |
| **450 ohm 14**ga stranded ladderline **100** ft. | 39.99 |
| **450 ohm 14**ga stranded ladderline **1000** ft. | 299.99 |
| (WA1) WA1FFL **Ladder-Loc** 450 ohm ctr ins | 12.99 |
| **RG-213** Non-contaminating per ft. | .59 |
| **RG-213/500** Non-contaminating .500 ft. Roll | 219.99 |
| **8X-1.5ST** 1.5' RG-8X coax/silver teflon PL259s | 9.99 |
| **8X-3ST** 3' RG-8X coax/silver teflon PL259s | 10.99 |
| **8X-6ST** 6' RG-8X coax/silver teflon PL259s | 12.99 |
| **8X-12ST** 12' RG-8X coax/silver teflon PL259s | 15.99 |
| **8X-25ST** 25' RG-8X coax/silver teflon PL259s | 22.99 |
| **8X-50ST** 50' RG-8X coax/silver teflon PL259s | 32.99 |
| **8X-75ST** 75' RG-8X coax/silver teflon PL259s | 40.99 |
| **8X-100ST** 100' RG-8X coax/silver teflon PL259s | 47.99 |
| **213-25ST** 25' RG-213 coax/silver teflon PL259s | 34.99 |
| **213-50ST** 50' RG-213 coax/silver teflon PL259s | 50.99 |
| **213-75ST** 75' RG-213 coax/silver teflon PL259s | 72.99 |
| **213-100ST** 100' RG-213 coax/silver teflon PL259s | 90.99 |

## VECTRONICS (VEC)

| | |
|---|---|
| **AT-100** .3-30 MHz active antenna/tuner Δ | $ 69.99 |
| **DL-300M** 300w 150MHz dummy load | 44.99 |
| **DL-650M** 1.5kw 650MHz dummy load | 74.99 |
| **DL-2500** 2.5kw 150MHz dummy load | 189.99 |
| **HFT-1500** 1.5kw antenna tuner | 419.99 |
| **HPF-1** High pass filter, 75 or 300 ohms | 24.99 |
| **HPF-2** Deluxe high pass filter, 75 or 300 ohms | 29.99 |
| **LP-30** 1.5kw low pass filter | 69.99 |
| **LP-2500** 2.5kw low pass filter | 129.99 |
| **PM-30HF** 300/3kw HF/6m wattmeter | 79.99 |
| **PM-30UV** 30/300w 2m/220/440 wattmeter | 89.99 |

## Vectronics - continued

| | AES Price |
|---|---|
| **VC-300D** 300w digital antenna tuner Δ | 149.99 |
| **VC-300DLP** 300w antenna tuner | 149.99 |
| **VC-300M** 300w mobile antenna tuner | 109.99 |
| **121K** Crystal radio set kit | 19.99 |
| **131K** Aircraft receiver kit | 29.99 |
| **201K** CW keyer kit | 24.99 |
| **412K** Nicad/NiMH battery conditioner kit Δ | 6.99 |
| **422K** FM broadcast SCA decoder kit | 27.99 |
| **830K** Super SSB audio filter kit | 19.99 |
| **841K** Tunable SSB/CW audio filter kit | 34.99 |
| **1140K** 40m receiver kit | 29.99 |
| **1240K** 40m QRP CW transmitter kit | 29.99 |
| **1290K** AM radio transmitter kit | 29.99 |

## VELLEMAN (VEL)

| | |
|---|---|
| **AVM-2050** Analog sound level meter | $ 29.99 |
| **AVW-089** 3 channel audio/video switcher | 8.99 |
| **DVM-810** 3½ digit digital multimeter | 9.99 |
| **DVM-850BL** Deluxe 3½ digit DMM w/holder | 19.99 |
| **EL-301** 30 in 1 electronic lab kit | 39.99 |
| **EL-1301** 130 in 1 electronic lab kit | 89.99 |
| **EL-3001** 300 in 1 electronic lab kit | 129.99 |
| **TLM-2** Test lead set w/banana plugs | 2.99 |
| **TLM-10** Test probe set | 4.99 |
| **VT-BT6** 33-piece screwdriver bit set | 6.99 |
| **VT-COAX** Coax stripper; RG-58/59/62/6 | 14.99 |
| **VT-LAMP2U** Hobby magnifier lamp w/table mt | 49.99 |
| **VT-M468L** Crimp tool for RJ-10/11/45 | 9.99 |
| **VT-SET3N** 6-pc electronics screwdriver set | 9.99 |
| **VT-SET21N** 8-in-1 screwdriver set | 4.99 |
| **VT-TS** 25-piece hobbyist tool set | 9.99 |

## VIBROPLEX (VIB)

| | |
|---|---|
| **090** Original Gold Bug | $309.99 |
| **100** Original Presentation Super deluxe bug | 269.99 |
| **105** Original Deluxe Bug | 209.99 |
| **110** Original Standard Bug | 179.99 |
| **113** VibroKeyer Gold Paddle | 279.99 |
| **115** VibroKeyer Deluxe Paddle | 199.99 |
| **120** VibroKeyer Standard Paddle | 159.99 |
| **123** Iambic Gold Paddle | 279.99 |
| **125** Iambic Presentation Paddle | 269.99 |
| **130** Iambic Deluxe Paddle | 199.99 |
| **135** Iambic Standard Paddle | 159.99 |
| **145** Triangular Brass Racer Iambic paddle | 149.99 |
| **150** Square Brass Racer Iambic paddle | 149.99 |
| **153** Gold straight key | 279.99 |
| **155** Standard straight key | 159.99 |
| **160** Deluxe straight key | 199.99 |
| **162** Gold Hand key/Iambic Paddle double | 399.99 |
| **163** Gold Hand key/VibroKeyer Paddle double | 399.99 |
| **165** Deluxe Hand key/Iambic Paddle double | 349.99 |
| **170** Dlx Hand key/VibroKeyer Paddle double | 349.99 |
| **175** Standard Hand key/Iambic Paddle double | 319.99 |
| **180** Std Hand key/VibroKeyer Paddle double | 319.99 |
| **185** Square Racer Deluxe Iambic paddle | 149.99 |
| **190** Square Racer Standard Iambic paddle | 129.99 |
| **195** Blue Racer 2000 Std Millennium Bug | 199.99 |
| **198** Blue Racer 2000 Dlx Millennium Bug | 219.99 |
| **200** Code Warrior Junior Paddle | 109.99 |
| **CP-3** Cord & plug for Iambic & Vibrokeyer | 9.99 |

## WA1FFL (WA1)

| | |
|---|---|
| **Ladder-Loc** 450 ohm ladderline center attach | $ 12.99 |

## W2AU (Unadilla) (W2A)

| | |
|---|---|
| **W2AU 1:1** 160-10m balun, lightning arrestor | $ 24.99 |
| **W2AU 4:1** 160-10m balun, lightning arrestor | 24.99 |
| **W2AU Beam** Balun, 1:1 | 24.99 |
| **W2DU-HF** 1:1 1.8-30 MHz choke balun | 26.99 |
| **W2DU-VHF** 1:1 30-250 MHz choke balun | 26.99 |
| **W2DU Beam** Balun 40-10m 1:1 choke balun | 26.99 |

## W2AU - continued

| | AES Price |
|---|---|
| **HA** AN-sulator center insulator | 9.99 |
| **HE** END-sulator end insulators ....pair | 6.99 |
| **KW-80CW** Reyco 80m CW ant traps ....pair | 48.99 |
| **KW-80F** Reyco 75m phone ant traps ....pair | 48.99 |
| **KW-60** Reyco 60m antenna traps ....pair | 46.99 |
| **KW-40** Reyco 40m antenna traps ....pair | 42.99 |
| **KW-30** Reyco 30m antenna traps ....pair | 42.99 |
| **KW-20** Reyco 20m antenna traps ....pair | 41.99 |
| **KW-17** Reyco 17m antenna traps ....pair | 41.99 |
| **KW-15** Reyco 15m antenna traps ....pair | 41.99 |
| **KW-12** Reyco 12m antenna traps ....pair | 41.99 |
| **KW-10** Reyco 10m antenna traps ....pair | 41.99 |
| **W2AU/W2VS** 5-band ant kit (use tuner) | 85.99 |

## W4RT (W4R)

| | |
|---|---|
| **Antenna Boss** interface;mot ant/FT100/847/57/97 | $149.99 |
| **Antenna Boss II** interface;motor ant/IC-706/etc | 149.99 |
| (LDG) **K-OTT** Kenwood 1-touch tune interface | 59.99 |
| **KB-2** Cable for Ant Boss II w/LDG K-OTT | 10.99 |
| **YB-OTT** FT-100/817/857/897 interface | 59.99 |
| **YB-2** Cable for Ant Boss II w/W4R YB-OTT | 10.99 |
| **OBF-703/718-DIY** CW&SB Collins filts;IC703/718 | 240.99 |
| **OBF-817/ND-DIY** CW & SSB Collins filts;FT-817 | 240.99 |
| **OBP-STD** Speech compress; 817/47/57/97 handmic | 49.99 |
| **OBP-UNIV** Speech compress; IC706/FT100 handmic | 49.99 |
| **OPF-CW** 500Hz Collins CW filter; FT817/57/97 | 114.99 |
| **OPF-SSB** 2.3KHz Collins SSB filter; FT817/57/97 | 129.99 |

## W5YI (W5Y)

| | |
|---|---|
| **BCOM** Basic Communications Electronics book | $ 19.99 |
| **BDIG** Basic Digital Electronics book | 19.99 |
| **BELC** Basic Electronics book | 19.99 |
| **ECS-02** Extra upgrade software/manual/code | 39.99 |
| **GROL** Commercial license elements 1/3/8 manual | 39.99 |
| **GRSP** Commercial study software w/GROL book | 69.99 |
| **GSTD** Getting Started in Electronics book | 19.99 |
| **GUS-04** General upgrade software/manual/code | 39.99 |
| **GW05/CD** Gordon West 8 ea 0-5 wpm code CD's | 39.99 |
| **GWCT** Gordon West refresher code course CD's | 14.99 |
| **GWEM-02** Gordon West Extra study manual | 19.99 |
| **GWEW-02/CD** Gordon West 7 ea Extra theory CD's | 39.99 |
| **GWGM-04** Gordon West General study manual | 17.99 |
| **GWGW-04** Gordon West 4 ea General theory CD's | 24.99 |
| **GWTM-03** Gordon West Tech study manual | 15.99 |
| **GWTW-03** Gordon West 6 ea Tech theory CD's | 34.99 |
| **HOS-04** Ham operator software/code (all classes) | 39.99 |
| **HOSB-04** Ham op soft/code/3 books (all classes) | 79.99 |
| **Mini-1** Timer, op amp & optoelectronics | 12.99 |
| **Mini-2** Science & communications | 12.99 |
| **Mini-3** Electronic sensors | 12.99 |
| **Mini-4** Electronic formulas, symbols & circuits | 12.99 |
| **NCS-03** Technician software w/manual | 39.99 |
| **TPG-04** Tech/General software/manuals/code | 59.99 |
| **WMC** 0-48 wpm code software | 14.99 |

## WAHL (WAH)

| | |
|---|---|
| **7740** Quick charge cordless soldering iron kit | $ 51.99 |
| **7971** 30 minute butane soldering iron | 25.99 |
| **7974** 120 minute butane soldering iron | 38.99 |

## Watson Guptill (WAT)

| | |
|---|---|
| **059367** 2006 World Radio TV Handbook | $ 29.95 |

## WELLER (WEL)

| | |
|---|---|
| **7200PK** 75w soldering gun kit | $ 30.99 |
| **7235** Extra standard tips (2) for 7200PK | 3.99 |
| **SP-23LK** 25w soldering iron kit | 18.99 |
| **WP-25** 25w professional soldering iron | 35.99 |
| **ST-4** ⅛" screwdriver tip for WP-25 | 4.99 |
| **FT-5** ⅛" single flat tip for WP-25 | 4.99 |
| **W-60P** 60w temp controlled soldering iron | 68.99 |
| **CT-5E7** ¼" screwdriver tip for W-60P | 5.99 |
| **WESD51** 50w adjustable soldering station | 149.99 |

## Weller - continued

| | AES Price |
|---|---|
| **WSTA3** Pyropen portable LP soldering iron | 99.99 |
| **WST2** Pyropen Jr. portable butane iron | 89.99 |
| **WTCPT** 60w temp controlled soldering stn | 119.99 |

## West Mtn Radio (WES)

| | |
|---|---|
| **CBA-2** Computerized battery analyzer w/software | $ 99.99 |
| **CBA/TEMP** Temperature probe for CBA-2 | 10.99 |
| **PG-40** PWRgate simple backup power system | 69.99 |
| **PG-40S** PWRgate backup power sys w/charger | 119.99 |
| **RB/PR/C** Rigblaster Pro; 8-pin/RJ-45 | 249.99 |
| **RB/PL/C** Rigblaster Plus; 8-pin/RJ-45 | 129.99 |
| **RB/NO/CU** Rigblaster nomic universal; 8-pin/RJ-45 | 69.99 |
| **FT100/CBL** 3' cable; Yaesu RJ-45/6-wire | 14.99 |
| **RR/4010S/C** Rigrunner FET 9outlet/cbl/connectors | 124.99 |
| **RR/4012/C** Rigrunner 40A 12outlet/cbl/connectors | 114.99 |
| **RR/4008/C** Rigrunner 40A 8outlet/cbl/connectors | 94.99 |
| **RR/4005/C** Rigrunner 40A 5outlet/cbl/connectors | 69.99 |
| **C30/PK/12** 12pr PowerPole 30A connectors | 10.99 |
| **PWR/TOOL** PWRcrimp PowerPole crimp tool | 49.99 |
| **RT-1** Rigtalk USB rig control interface | 49.99 |
| **CATMINI/CBL** Yaesu cable for RT-1 | 12.99 |
| **CIV/CBL** Icom/Ten-Tec cable for RT-1 | 7.99 |
| **WHAT/MTR** Whattmeter watt/volt/amp/amp hr | 69.99 |

## Wiley Publishing (WIE)

| | |
|---|---|
| **Astro Dummies** Astronomy for Dummies book | $ 19.99 |
| **GPS Dummies** Gps for Dummies book | 21.99 |
| **HR for Dummies** Ham Radio for Dummies book | 21.99 |
| **WX for Dummies** Weather for Dummies book | 21.99 |

## WILSON (WIL)

| | |
|---|---|
| **FGT-4/BLK** 4' black figerglass CB whip | $ 28.99 |
| **FGT-4/WHT** 4' white figerglass CB whip | 28.99 |
| **Little Wil** Magnetic mt CB antenna | 31.99 |
| **Trucker 2000** Black mobile ¾-24 CB whip | 54.99 |
| **W-1000 Magnetic** Black mobile CB antenna | 76.99 |
| **W-1000 Roof** Top Black mobile CB antenna | 57.99 |
| **W-1000 Trunk** Lip Black mobile CB antenna | 65.99 |

## WINEGARD (WIN)

| | |
|---|---|
| **CX-0625** 25' RG-6 TV coax w/F connectors | $ 10.99 |
| **CX-0650** 50' RG-6 TV coax w/F connectors | 15.99 |
| **CX-0675** 75' RG-6 TV coax w/F connectors | 19.99 |
| **CX-6100** 100' RG-6 TV coax w/F connectors | 24.99 |
| **PR-7010** 22 el 66.5" boom Prostar TV ant | 49.99 |
| **PR-7032** 33 el 103.25" boom Prostar TV ant | 79.99 |
| **PR-7042** 43 el 149.75" boom Prostar TV ant | 119.99 |
| **TV-2900** Outdoor TV matching transformer | 2.99 |

## YAESU (YAE)

| | |
|---|---|
| **FTDX-9000 Contest** 200w HF/6m Xcvr | 5699.99 |
| **FTDX-9000D** Deluxe 200w HF/6m Xcvr | 11499.99 |
| **FTDX-9000MP** High Power 400w HF/6m Xcvr | 12049.99 |
| **MD-100A8X** Desk mic w/tone control | 139.99 |
| **MD-200A8X** Deluxe high fidelity desk mic | 399.99 |
| **MH-31B8** Extra hand microphone | 49.99 |
| **SP-9000** Ext dual spkr sys/audio filts; Contest/D | 369.99 |
| **YH-77STA** Open-air type stereo headphones | 59.99 |
| **FT-1000MP Mk V** 200w HF Xcvr/EDSP/tnr/ps D | 2269.99 |
| **DVS-2** Digital voice module; Mk V/Field ..Δ | 239.99 |
| **EDC-20** Extra DC cable; Field | 18.99 |
| **FH-1** Remote control keypad; Mk V/Field .Δ | 94.99 |
| **FTV-1000** 200w 6m transverter; Mk V .....Δ | 949.99 |
| **FP-29** 30vdc ps; FTV-1000/orig MP/Field Δ | 569.99 |
| **FRB-5** Relay board; FTV-1000/orig MP Δ | 65.99 |
| **MD-100A8X** Desk mic w/tone control | 139.99 |
| **MD-200A8X** Deluxe high fidelity desk mic | 399.99 |
| **MH-31B8** Extra hand microphone | 49.99 |
| **SP-8** External speaker w/filters; Mk V/Field Δ | 174.99 |
| **LL-7** Phone patch unit for SP-8 .....Δ | 149.99 |
| **T-9018320** Extra DC cable; Field .....Δ | 26.99 |
| **TCXO-6** Deluxe TCXO unit, Mk V/Field .....Δ | 189.99 |
| **YA-007FG** FG whip w/bpr mt; 80-10m use tuner | 169.99 |

## Yaesu - continued

| | AES Price |
|---|---|
| **YF-110CN** 250Hz 3rdIFCWfilt;FRGMkV&Field Δ | 159.99 |
| **YF-110SN** 2KHz 3rd IF SSB filt;Mk V/Field Δ | 159.99 |
| **YF-114CN** 250Hz 2nd IF CW filt;Mk V/Field Δ | 159.99 |
| **YF-114SN** 2KHz 2nd IF SSB filt;Mk V/Field Δ | 159.99 |
| **YF-115C** 500Hz CW Collins filt;FRGMkV&Field Δ | 169.99 |
| **YH-77STA** Open-air type stereo headphones | 59.99 |
| **FT-840** HF Xcvr/SW Rcvr/mic .....D | 599.99 |
| **EDC-20** Extra DC cable | 18.99 |
| **FP-1023** 23A switching ps w/fan, 25A surge | 169.99 |
| **FP-1030A** 25A ps, 30A surge w/meters | 269.99 |
| **FC-10** External coax fed auto tuner .....Δ | 429.99 |
| **FC-800** External long wire auto tuner .....Δ | 469.99 |
| **FIF-232C** RS-232 interface; FT840/FRG100B Δ | 99.99 |
| **FM-747** FM unit .....Δ | 69.99 |
| **MD-100A8X*** Desk mic w/tone control | 139.99 |
| *Cable needed for FT-840; contact service for info | |
| **MD-200A8X** Deluxe high fidelity desk mic | 399.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **MMB-20** Mobile mount .....Δ | 39.99 |
| **SP-6** External speaker w/filter .....D | 154.99 |
| **T-9018320** Extra DC cable .....Δ | 26.99 |
| **TCXO-4** TCXO unit; FT-840/FRG-100B .....Δ | 109.99 |
| **YA-007FG** FG whip w/bpr mt; 80-10m use tuner | 169.99 |
| **YF-112A** 6 KHz AM filter .....Δ | 129.99 |
| **YF-112C** 500 Hz CW filter .....Δ | 129.99 |
| **YH-77STA** Open-air type stereo headphones | 59.99 |
| **FT-897D** HF/6m/2m/430 port/base Xcvr/TCXO | 899.99 |
| (BET) **Yae Tune Contr**ol for FT-897 series | 44.99 |
| (W4R) **Antenna Boss** interface; other mfgr mot ant | 179.99 |
| (W4R) **OPF-CW** 500Hz Collins CW filter | 114.99 |
| (W4R) **OPF-SSB** 2.3KHz Collins SSB filter | 129.99 |
| **FP-30** Internal power supply | 229.99 |
| **ADMS-4B** Windows programming software | 59.99 |
| **ATAS-120** HF/6/2/430 motorized mob ant | 319.99 |
| **ATBK-100** Antenna base kit; use w/base mt | 99.99 |
| **ATAS-25** 40/20/15/10/6/2/430 7.2' port ant | 249.99 |
| **CT-39A** Packet cable | 11.99 |
| **CT-62** CAT interface cable | 36.99 |
| **EDC-20** Extra DC cable | 18.99 |
| **FC-30** Antenna tuner; bolts to FT-897 | 199.99 |
| **FC-40** Automatic antenna tuner | 299.99 |
| **FNB-78** 4.5ah NiMH batt (will accept 2) | 129.99 |
| **CD-24** 4-hr charge adapter for FNB-78 | 129.99 |
| **PA-26B** 110vac charger for CD-24 | 89.99 |
| **MD-100A8X** Desk mic w/tone control | 139.99 |
| **MD-200A8X** Deluxe high fidelity desk mic | 399.99 |
| **MH-36E8J** TTP mic | 69.99 |
| **MH-59A8J** Remote control TTP mic | 79.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **MMB-80** Mobile mounting bracket | 39.99 |
| **SP-6** External speaker w/filter .....D | 154.99 |
| **T-9023225** Extra DC cable .....Δ | 26.99 |
| **YA-007FG** FG whip w/bpr mt; 80-10m use tuner | 169.99 |
| **YF-122C** 500Hz Collins CW filter | 169.99 |
| **YF-122CN** 300Hz Collins CW filter | 169.99 |
| **YF-122S** 2.3KHz Collins SSB filter | 169.99 |
| **YH-77STA** Open-air type stereo headphones | 59.99 |
| **FT-857D** Mini HF/6m/2m/430 Xcvr/DSP | Call/Web |
| (BET) **Yae Tune Contr**ol for FT-857 series | 44.99 |
| (W4R) **Antenna Boss** interface; other mfgr mot ant | 179.99 |
| (W4R) **OPF-CW** 500Hz Collins CW filter | 114.99 |
| (W4R) **OPF-SSB** 2.3KHz Collins SSB filter | 129.99 |
| **FP-1023** 23A switching ps w/fan, 25A surge | 169.99 |
| **FP-1030A** 25A ps, 30A surge w/meters | 269.99 |
| **ADMS-4B** Windows programming software | 59.99 |
| **ATAS-120** HF/6/2/430 motorized mob ant | 319.99 |
| **ATBK-100** Antenna base kit; use w/base mt | 99.99 |
| **ATAS-25** 40/20/15/10/6/2/430 7.2' port ant | 249.99 |
| **CT-39A** Packet cable | 11.99 |
| **CT-58** Band data cable; Yaesu amplifier | 34.99 |
| **CT-62** CAT interface cable | 36.99 |
| **EDC-20** Extra DC cable | 18.99 |


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## Yaesu - continued

| | AES Price |
|---|---|
| **FC-30** Antenna tuner | 199.99 |
| **FC-40** Automatic antenna tuner | 299.99 |
| **MD-100A8X** Desk mic w/tone control | 139.99 |
| **MD-200A8X** Deluxe high fidelity desk mic | 399.99 |
| **MH-36E8J** TTP mic | 69.99 |
| **MH-59A8J** Remote control TTP mic | 79.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **SP-6** External speaker w/filter D | 154.99 |
| **T-9023225** Extra DC cable Δ | 26.99 |
| **TCXO-9** TCXO unit, 0.5 ppm | 109.99 |
| **YA-007FG** FG whip w/bpr mt; 80-10m use tuner | 169.99 |
| **YF-122C** 500Hz Collins CW filter | 169.99 |
| **YF-122CN** 300Hz Collins CW filter | 169.99 |
| **YF-122S** 2.3KHz Collins SSB filter | 169.99 |
| **YH-77STA** Open-air type stereo headphones | 59.99 |
| **YSK-857** Separation kit | 69.99 |
| **FT-817ND** 5w HF/6/2/430 Xcvr/FNB85/NC72B | 599.99 |
| (W4R) **OBF-817/ND-DIY** CW & SSB Collins filts | 240.99 |
| (W4R) **OPF-CW** 500Hz Collins CW filter | 114.99 |
| (W4R) **OPF-SSB** 2.3KHz Collins SSB filter | 129.99 |
| **ADMS-4A** Windows programming software | 59.99 |
| **ATAS-25** 40/20/15/10/6/2/430 7.2' port ant | 249.99 |
| **CSC-83** Soft case w/side pocket for FT-817 | 29.99 |
| **CT-39A** Packet cable | 11.99 |
| **CT-62** CAT interface cable | 36.99 |
| **EDC-6** Extra DC cord; plug & wire only | 8.99 |
| **FNB-72** 9.6v 1000mah nicad battery Δ | 24.99 |
| **FNB-85** 9.6v 1400mah NiMH battery | 69.99 |
| **MH-36E8J** TTP mic | 69.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **NC-72B** Extra nicad wall charger | 24.99 |
| **TCXO-9** TCXO unit, 0.5 ppm | 109.99 |
| **YA-007FG** FG whip w/bpr mt; 80-10m use tuner | 169.99 |
| **YF-122C** 500Hz Collins CW filter | 169.99 |
| **YF-122CN** 300Hz Collins CW filter | 169.99 |
| **YF-122S** 2.3KHz Collins SSB filter | 169.99 |
| **CT-61** Interface cable; FT-847 to amp Δ | 15.99 |
| **DSP-2** DSP unit for original FT-857 Δ | 49.99 |
| **FC-20** Automatic antenna tuner; FT-847 Δ | 289.99 |
| **FM-1** FM unit for FT-920 Δ | 59.99 |
| **FP-1023** 23A switching ps w/fan, 25A surge | 169.99 |
| **FP-1030A** 25A ps, 30A surge w/meters | 269.99 |
| **MH-36D8** TTP mobile mic; FT-847 Δ | 69.99 |
| **MMB-66** Mobile mounting bkt; FT-847 Δ | 44.99 |
| **MMB-67** Quick release bracket; FT-100D Δ | 29.99 |
| **T-9021925** Extra DC cord; FT-100D Δ | 42.99 |
| **TCXO-7** TCXO unit for FT-920 Δ | 99.99 |
| **XF-117A** 6 KHz AM filter; FT-100D Δ | 129.99 |
| **XF-117CN** 300 Hz CW filter; FT-100D D | 79.99 |
| **YA-007FG** FG whip w/bpr mt; 80-10m use tuner | 169.99 |
| **YA-30** 1.8-30 MHz broadband dipole ant | 259.99 |
| **YF-115S-02** 2.5KHz Collins SSB filter;FT847 Δ | 169.99 |
| **YF-116A** 6 KHz AM filter for FT-920 Δ | 119.99 |
| **YF-116C** 500 Hz CW filter for FT-920 Δ | 119.99 |
| **YH-77STA** Open-air type stereo headphones | 59.99 |
| **YSK-100** Separation kit for FT-100D Δ | 99.99 |
| **Quadra System** VL/VP1000 HF+6m amp/ps/tuner | 3899.99 |
| **FRG-100B** .1-30 MHz shortwave receiver Δ | 529.99 |
| **FIF-232C** RS-232 interface;FRG100B/FT840 Δ | 99.99 |
| **FIF-232C** Interface for RS-232 | 99.99 |
| **FM Unit-100** FM unit for FRG-100B Δ | 49.99 |
| **TCXO-4** TCXO unit; FRG-100B/FT-840 Δ | 109.99 |
| **YF-110CN** 250Hz CW filt;FRGMkV&Field Δ | 159.99 |
| **YF-115C** 500Hz CW Collins filt;FRGMkV&Field Δ | 169.99 |
| **VR-120D** .1MHz-1.2995GHz AM/FM hand/cell blkd | 199.99 |
| **CA-34** Charger sleeve; NC-82/VR-120D | 5.99 |
| **CSC-76** Soft case for VR-120/D | 19.99 |
| **CT-35** Clone cable; VR-120/D D | 2.99 |
| **EDC-15** DC adapter | 39.99 |
| **FNB-79** Nicad battery for VR-120D | 10.99 |
| **NC-82** Charger stand | 10.99 |

## Yaesu - continued

| | AES Price |
|---|---|
| **PA-30B** AC adapter | 8.99 |
| **VR-500** .1M-1.3G AM/FM/SSB hand/cell blkd | 319.99 |
| **ADMS-3** Windows programming software | 39.99 |
| **CSC-72** Soft case for VR-500 | 19.99 |
| **EDC-5B** DC adapter w/noise filter | 26.99 |
| **EDC-6** DC adapter; plug & wire only | 8.99 |
| **FNB-59** Nicad battery for VR-500 | 29.99 |
| **NC-60B** Wall charger | 16.99 |
| **VR-5000** .1M-2.6G base rcvr AM/FM/SSB/cell blkd | 599.99 |
| **DSP-1** DSP unit | 119.99 |
| **DVS-4** Digital voice recorder | 49.99 |
| **E-736** DC cable for FT-736R Δ | 19.99 |
| **FT-7800R** 50w 2m/40w 440 FM Xcvr | Call/Web |
| **ADMS-2K** Windows programming software | 39.99 |
| **CT-39A** Packet cable | 11.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **MMB-60** Quick release mobile mount | 39.99 |
| **T-9021715** Extra DC cable | 12.99 |
| **YSK-7800** Remote separation kit | 59.99 |
| **FT-8800R** 50w 2m/35w 440 FM Xcvr | 389.99 |
| **ADMS-2I** Windows programming software | 39.99 |
| **CT-39A** Packet cable | 11.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **MMB-60** Quick release mobile mount | 39.99 |
| **MMB-62** Remote front panel mounting bkt | 44.99 |
| **T-9021810** Extra DC cable | 12.99 |
| **YSK-8900** Remote separation kit | 59.99 |
| **FT-8900R** 50w 10m/6m/2m/35w 440 FM Xcvr | 439.99 |
| **ADMS-2H** Windows programming software | 39.99 |
| **CT-39A** Packet cable | 11.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **MMB-60** Quick release mobile mount | 39.99 |
| **MMB-62** Remote front panel mounting bkt | 44.99 |
| **T-9021810** Extra DC cable | 12.99 |
| **YSK-8900** Remote separation kit | 59.99 |
| **AD-3** 100w 2m/440 duplexer | 59.99 |
| **ADMS-2E** Windows prog soft; FT-2600M/90R Δ | 39.99 |
| **ADMS-2F** Windows prog software; FT-1500M Δ | 39.99 |
| **ADMS-2G** Windows prog soft; FT-7100M Δ | 39.99 |
| **FRC-6** DTMF pager; 2400M/2500M/7400H D | .19 |
| **RA-0131900** Extra mobile bracket; FT-90R Δ | 2.99 |
| **RA-0242900** Extra mobile bkt; FT-1500M Δ | 4.99 |
| **YSK-90** Remote separation kit; FT-90R Δ | 64.99 |
| **YSK-7100** Rem separation kit; FT-7100M Δ | 69.99 |
| **YSK-8100** Rem separation kit; FT-8100R Δ | 74.99 |
| **FT-1802M** 50w 2m FM Xcvr w/TTP mic | 149.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **FT-2800M** 65w 2m FM Xcvr w/TTP mic | 159.99 |
| **ADMS-2J** Windows programming software | 39.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **S-8002051**/MMB-83 Extra mobile bracket | 4.99 |
| **S-8101436** Extra DC cable | 7.99 |
| **FP-1023** 23A switching ps w/fan, 25A surge | 169.99 |
| **FP-1030A** 25A ps, 30A surge w/meters | 269.99 |
| **HRI-100** WIRES II interface box | 149.99 |
| **LF-1** Mobile 13A DC noise filter | 29.99 |
| **MLS-100** Mobile speaker | 49.99 |
| **VXR-7000VA**/Vertex 50w 2m FM AC/DC rptr | 1269.99 |
| **VX VPL-1** Repeater programming cables | 87.99 |
| Repeaters require service dept set-up; $45 minimum | |

### Accs for FT-23/33/73/411/811/470/911

| | |
|---|---|
| **CSC-24S** Soft case; FT-23/33/73 w/FNB-12S D | $ .09 |
| **CSC-35** Soft case; FT-411/811/911/FNB-17 D | .19 |
| **FBA-17** AA battery holder Δ | 19.99 |
| **FNB-12S** 12v 600mah 5w battery Δ | 59.99 |
| **FNB-17** 7.2v 600mah battery Δ | 39.99 |
| **NC-34B** Wall charger for FNB-14 Δ | 1.49 |
| **CA-15** Charging stand; NC-60B; FT-10/50 Δ | 24.99 |
| **CLIP-10** Spring loaded belt clip; FT-50 Δ | 6.99 |
| **CSC-68** Soft case; FT-50//FNB-41/FBA-15 Δ | 18.99 |

## Yaesu - continued

| | AES Price |
|---|---|
| **CSC-V10** Cordura soft case; FT-10/40/50 Δ | 19.99 |
| **FBA-15** 4-AA battery holder; FT-50RD Δ | 19.99 |
| **FBA-21** 6-AA battery holder; FT-50RD Δ | 39.99 |
| **FNB-41** 9.6v 600mah 5w battery; FT-50RD Δ | 59.99 |
| **FNB-V47** 7.2v 1100mah battw/belt clip; FT-50 Δ | 49.99 |
| **PA-17** Battery cable extender; FT-50RD Δ | 6.99 |
| **LCC-10S** Leather case/swivel; 50//FNB41/V47 Δ | 29.99 |
| **NC-50** 1-hour dual slot charger; FT-50RD Δ | 99.99 |
| **CA-14** 2 charging sleeves; NC-50 Δ | 29.99 |
| **YHA-54** 2m/440 duck antenna Δ | 19.99 |
| **FT-60R** 5w 2m/440 FM HT | 189.99 |
| **ADMS-1J** Windows programming software | 39.99 |
| **CN-3** BNC to SMA adapter | 11.99 |
| **CT-27A** Cloning cable | 14.99 |
| **CT-44** 2-pin spkr/mic adapter | 14.99 |
| **EDC-5B** DC adapter w/noise filter | 26.99 |
| **EDC-6** DC cord; plug & wire only | 8.99 |
| **FBA-25** 6 AA cell battery case | 20.99 |
| **FNB-83** 7.2v 1400mah NiMH battery | 65.99 |
| **MH-34B4B** Speaker/mic | 38.99 |
| **MH-37A4B** Earpiece/microphone | 40.99 |
| **VAC-370** Rapid charger | 79.99 |
| **VC-25** VOX headset | 69.99 |
| **VX-150** 5w 2m FM HT/batt/cgr/16-key TTP | Call/Web |
| **ADMS-1F** Windows programming software | 39.99 |
| **CN-3** BNC to SMA adapter | 11.99 |
| **CT-27A** Cloning cable | 14.99 |
| **CT-44** 2-pin spkr/mic adapter | 14.99 |
| **CT-53** Packet cable | 9.99 |
| **EDC-5B** DC adapter w/noise filter | 26.99 |
| **EDC-6** DC cord; plug & wire only | 8.99 |
| **FBA-25** 6 AA cell battery case | 20.99 |
| **FNB-V57** 7.2v 1100mah battery | 49.99 |
| **FNB-64** Extra 7.2v 700mah battery | 36.99 |
| **LCC-150/TT** Leather case | 29.99 |
| **LCC-150S/TT** Leather case w/swivel | 36.99 |
| **MH-34B4B** Speaker/mic | 38.99 |
| **MH-37A4B** Earpiece/microphone | 40.99 |
| **NC-72B** Extra wall charger | 19.99 |
| **VAC-400B** 1-hour desk top rapid charger | 69.99 |
| **VC-25** VOX headset | 69.99 |
| **VX-170** 5w 2m FM HT/batt/cgr/16-key TTP | 149.99 |
| **VX-177** 5w 440 FM HT/batt/cgr/16-key TTP | 149.99 |
| **CD-26** Charger cradle | 30.99 |
| **CMP-460A** Waterproof speaker/mic | 69.99 |
| **CN-3** BNC to SMA adapter | 11.99 |
| **CT-91** Microphone adapter | 12.99 |
| **EDC-5B** DC adapter w/noise filter | 26.99 |
| **EDC-6** DC cord; plug & wire only | 8.99 |
| **FBA-25** 6 AA cell battery case | 20.99 |
| **FNB-83** 7.2v 1400mah NiMH battery | 65.99 |
| **MH-57A4B** Speaker/mic | 30.99 |
| **VAC-370** Rapid charger | 79.99 |
| **VC-24** VOX headset | 79.99 |
| **VC-27** Earpiece/microphone | 34.99 |
| **ADMS-1E** Windows prog software; VX-5R Δ | 39.99 |
| **CSC-71** Soft case for VX-1R Δ | 2.99 |
| **CSC-73** Soft case for VX-5R Δ | 19.99 |
| **FBA-20** Battery holder for VX-1R Δ | 19.99 |
| **FNB-52LI** 3.6v 700mah lith ion batt; VX-1R Δ | 39.99 |
| **NC-66B** Extra 2 hour wall charger; VX-1R Δ | 19.99 |
| **Q-3000166** Replacement duck ant for VX-5R Δ | 30.99 |
| **VX-2R** 1.5w 2m/1w 440 submini HT/lith ion | Call/Web |
| **ADMS-1H** Windows programming software | 39.99 |
| **CN-3** BNC to SMA adapter | 11.99 |
| **CSC-90** Soft case | 19.99 |
| **CT-27A** Cloning cable | 14.99 |
| **CT-44** 2-pin spkr/mic adapter | 14.99 |
| **EDC-21** DC adapter | 42.99 |
| **FNB-82LI** Extra 3.7v 1000mah lith ion batt | 38.99 |
| **MH-34B4B** Speaker/mic | 38.99 |

## Yaesu - continued

| | AES Price |
|---|---|
| **MH-37A4B** Earpiece/microphone | 40.99 |
| **VC-25** VOX headset | 69.99 |
| **VX-6R** 5w 2m/440/1.5w 220 FM HT | 249.99 |
| **ADMS-VX6** Windows programming software | 39.99 |
| **CT-91** Microphone adapter | 12.99 |
| **CD-15A** Charger stand (use with NC-72B) | 34.99 |
| **CMP-460A** Waterproof speaker/mic | 69.99 |
| **CN-3** BNC to SMA adapter | 11.99 |
| **CSC-91** Soft case | 15.99 |
| **CT-91** Microphone adapter | 12.99 |
| **EDC-5B** DC adapter w/noise filter | 26.99 |
| **EDC-6** DC cord; plug & wire only | 8.99 |
| **FBA-23** 2 AA cell battery case | 29.99 |
| **FNB-80LI** Extra 7.4v 1300mah lith ion batt | 79.99 |
| **MH-57A4B** Speaker/mic | 30.99 |
| **NC-72B** Extra wall charger | 19.99 |
| **SU-1** Altitude/barometric pressure sensor | 39.99 |
| **VC-24** VOX headset | 79.99 |
| **VC-27** Earpiece/microphone | 34.99 |
| **VX-7R** Silver 5w 6m/2m/440/300mw 220 FM HT | 329.99 |
| **VX-7RB** Black 5w 6m/2m/440/300mw 220 FM HT | 329.99 |
| **ADMS-1G** Windows programming software | 39.99 |
| **CT-91** Microphone adapter | 12.99 |
| **CD-15A** Charger stand (use with NC-72B) | 34.99 |
| **CMP-460A** Waterproof speaker/mic | 69.99 |
| **CN-3** BNC to SMA adapter | 11.99 |
| **CSC-88** Soft case | 15.99 |
| **CT-91** Microphone adapter | 12.99 |
| **EDC-5B** DC adapter w/noise filter | 26.99 |
| **EDC-6** DC cord; plug & wire only | 8.99 |
| **FBA-23** 2 AA cell battery case | 29.99 |
| **FNB-80LI** Extra 7.4v 1300mah lith ion batt | 79.99 |
| **MH-57A4B** Speaker/mic | 30.99 |
| **NC-72B** Extra wall charger | 24.99 |
| **Q-3000185** Replacement duck ant | 29.99 |
| **SU-1** Altitude/barometric pressure sensor | 39.99 |
| **VC-27** Earpiece/microphone | 34.99 |

### ANTENNA ROTORS

| | |
|---|---|
| **G-450A** 10 sq ft antenna rotor/5-wire | $259.99 |
| **G-550** 12 sq ft elevation rotor/6-wire | 299.99 |
| **G-800SA** Med/hvy duty 450 degree 17sq ft/5-wire | 339.99 |
| **G-800DXA** Med/hvy duty 17sq ft/presets/5-wire | 429.99 |
| **G-1000DXA** HD 450 degree 23sq ft/presets/6-wire | 519.99 |
| **G-2800DXA** HD 450 degree 34sq ft/presets/6-wire | 1139.99 |
| Note: G-2800DXA comes w/40m (131') of rotor cable | |
| **G-5500** 11 sq ft azimuth/elevation rotor//2x6-wire | 629.99 |
| **GA-3000** Tower absorber joint; G-1000/2800 Δ | 129.99 |
| **GC-038** Mast clamp; G-450/800/1000/5500 | 39.99 |
| **GC-048** Mast clamp; G-2800 | 49.99 |
| **GL-33** Mast adjustment plate | 18.99 |
| **GS-050** 50mm thrust bearing; mast 1¼-2" | 39.99 |
| **GS-065** 65mm thrust bearing; mast 1½-2½" | 54.99 |
| **GS-232B** Computer interface; DXA rotors | 589.99 |
| **C-1000** Interface cable; GS-232A/B - SDX/G5500 | 34.99 |
| **GS-680U** Universal self-adjusting mast bearing | 109.99 |
| **Sep Kit** Separation kit for G5500 | 29.99 |

See BELDEN for rotor cable

### CONSUMER ELECTRONICS

| | |
|---|---|
| **VXA-710** Spirit 5w air handheld | $399.99 |
| **FNB-53** Nicad battery pack; Yaesu FRS Δ | .29 |

## CLOSE-OUTS

| | |
|---|---|
| **ADI AR-447** 35w 440 MHz FM Xcvr/TTP mic | 199.99 |
| **ALI DR-605TQ** 50/35w 2m/440 FM/EJ24U tone sq | 339.99 |
| **ALI EBP-34N** 4.8v 1200mah nicad battery | 79.99 |
| **ALP Pathfinder** 1.8-30+6m dig auto ant tuner | 199.99 |
| **AOR AR-3000AB** .1-2036MHz dlx w/SB/cell blkd | 1099.99 |
| **AOR LA-350** 3-30MHz active loop antenna | 339.99 |
| **AOR SDU-5500** Spectrum disp unit/PC interfc | 899.99 |
| **AOR TDF-370** Multi-media terminal/DSP | 299.99 |
| **B&W ACS-5-30** 5-30 Mhz stainless 65' folded dip | 219.99 |

## Close-Outs - continued

| | AES Price |
|---|---|
| **BEN BY-3** Iambic keyer paddle, gold plated | 299.99 |
| **BUS 26-3150** Night Vision 3.1x50 binocular | 399.99 |
| **BUS 78-0040** 90mm refractor telescope | 349.99 |
| **BUS 78-0200** 4.5" reflector telescope | 269.99 |
| **BUS 78-2010** 4.5" reflector telescope | 149.99 |
| **CEL 4030** 40-500x educational microscope | 79.99 |
| **CEL 4050** 40/100/400x biological microscope | 149.99 |
| **CEL 10110** StarHopper 10 Dobsonian telescope | 439.99 |
| **CEL 10112** StarHopper 12 Dobsonian telescope | 749.99 |
| **CEL 21019** C-6R refractor telescope | 729.99 |
| **CEL 21086** FirstScope 80EQ refractor telescope | 209.99 |
| **CEL 31044** FirstScope 114 4.5" reflector telescope | 179.99 |
| **CEL 31056** C-6N reflector telescope | 349.99 |
| **CEL 31142** NexStar 114GT reflector telescope | 329.99 |
| **CEL 52211** 60mm wildlife zoom spot scope/tripod | 129.99 |
| **CEL 93497** Standard tripod | 89.99 |
| **CEL 93501** Heavy duty tripod; NexStar 8i | 199.99 |
| **CEL 94303** Plossl lens/filter kit w/carrying case | 109.99 |
| **COB 20XTR** AM Mobile CB w/neon mag ant | 79.99 |
| **DAI CN-801H** 1.8-200 20/200/2kw SWR/pwr | 149.99 |
| **DAV 6150** Wireless Vantage Pro weather station | 399.99 |
| **DIA A-504HB** 6m 4el 10.7'boom 10.8db beam | 149.99 |
| **DRA 1590** 35-55/108-174MHz convert; R8B | 229.99 |
| **GAR 010-10468-00** MapSource MetroGuide CD | 99.99 |
| **GAR eTREX Vista C** Mini color GPS | 249.99 |
| **GAR GPS-V Deluxe** Turn-by-turn navigation GPS | 299.99 |
| **GAR StreetPilot III Deluxe** GPS | 599.99 |
| **GRU S-350** Portable AM/FM/SW receiver w/ps | 79.99 |
| **HBZ 3500** Aerobird Challenger RTF electric airplane | 89.99 |
| **HBZ 7800** Sky Surfer RTF electric airplane | 169.99 |
| **IAC 40m** double **Bazooka Shorty** 40' antenna | 79.99 |
| **ICO A-23** 5w compact Navicom air handheld | 329.99 |
| **ICO BC-119-N21** Nicad/NiMH desk cgr; T81A | 99.99 |
| **ICO BP-83** 7.2v 600mah battery | 79.99 |
| **ICO BP-200L** 9.6v 760mah NiMH batt; T81A | 89.99 |
| **ICO EX-1759** Infrared receiver; IC-2100H | 79.99 |
| **ICO HM-90A** Wireless microphone; IC-2100H | 79.99 |
| **ICO IC-4088A** Dlx family radio service handheld | 89.99 |
| **ICO IC-M1V** Waterproof 5w VHF marine handheld | 199.99 |
| **ICO IC-M402W02** White waterproof 25w VHF marine | 189.99 |
| **ICO UT-84** Tone squelch unit; 2700H/821H | 79.99 |
| **IDI K-3** Logikey CW keyer | 129.99 |
| **JRP 317275** XS3 synth FM pistol/1-Z590M/1-Z270 75M | 169.99 |
| **KAN KAM 98** Sgl port multi-mode dig controller | 369.99 |
| **KEN AT-50** External HF auto tuner | 329.99 |
| **KEN DFK-7** Dlx 22' rem cable kit; 642/742AD | 89.99 |
| **KEN DFK-7C** Dlx 23' rem cable kit; TMG707A | 99.99 |
| **KEN PB-34** 9.6v 600mah 5w batt; TH-22ATH | 89.99 |
| **KEN PS-52** Heavy duty ps; TS-870S | 269.99 |
| **KEN SP-31** External speaker; TS-870S | 99.99 |
| **KEN SP-950** Ext spkr/audio filters; TS-950SDX | 149.99 |
| **KEN TC-50**/50Case Travel case; TS-50S/60S | 89.99 |
| **KEN TH-K2AT(K2)** 5w 2m FM HT/batt holder | 99.99 |
| **KEN TM-G707A** 50w 2m/35w 440 FM/TTP mic | 279.99 |
| **KEN UT-50S** 50w 6m unit; 642/742AD | 329.99 |
| **KEN YG-455C-1** 500 Hz CW filter; TS-450/690 | 149.99 |
| **KEN YK-107C** 500 Hz CW filter; TS-50S | 129.99 |
| **LAC WS-2010** Pro wireless weather station | 299.99 |
| **LAC WS-2010-13** PC interface/soft; WS2010 | 79.99 |
| **LAC WS-2310** Wireless/wired weather center | 249.99 |
| **LAC WS-9016U** Sun/moon wireless WX stn | 79.99 |
| **LAR KG-220-UD-PL** 220 3 db on glass ant | 86.99 |
| **LDG RT-11** 160-6m remote autotuner | 199.99 |
| **LOS A0014** XXX-4 4WD electric Competition buggy kit | 199.99 |
| **LOS A0090** XXX-T Sport RTR w/XR2i electric car | 209.99 |
| **MAG 980654-01** MapSend DirectRoute; Gold/Plat/Col | 89.99 |
| **MAG 980654-03** MapSend DirectRoute; Gold/Plat/Col | 79.99 |
| **MAG Meridian Color** Handheld color GPS/16MB | 299.99 |
| **MAG SporTrak** GPS receiver w/1MB memory | 119.99 |
| **MAG SporTrak Color** Handheld color GPS/9MB | 279.99 |
| **MEA 20211** NGC-70SP 70mm refractor telescope | 169.99 |

## Close-Outs - continued

| | AES Price |
|---|---|
| **MFJ 498** Dlx CW keyboard/kyr w/disp/keyboard | 119.99 |
| **MFJ 817** 2m/440 cross needle meter | 79.99 |
| **MFJ 974** 3.5-30MHz balanced line ant tuner | 139.99 |
| **MFJ 974H** 1.8-30MHz balanced line ant tuner | 159.99 |
| **MFJ 991** 150w automatic antenna tuner | 169.99 |
| **MFJ 994** 600w automatic antenna tuner | 289.99 |
| **MIR KP-1/10M** 10m in shack preamp | 89.99 |
| **MIR KP-2/10M** 10m mast mount preamp | 89.99 |
| **MSQ 2M-9FM** 2m 145-148 12db 9el 14.5' bm | 129.99 |
| **MSQ 2M-9SSB** 2m 144-146 12db 9el 14.5' bm | 156.99 |
| **MSQ 2M5-440XP** 2m/440 9/12db 5/10el 5'8" bm | 199.99 |
| **MSQ 15M-4DX** 15m 8.5db 4el 33' 8" bm beam | 549.99 |
| **MSQ 432-13WLA** 432 18.6db 38el 30'8" boom | 249.99 |
| **MSQ 440-470-5W** 440-470 7.8db 5el beam | 119.99 |
| **MSQ 902-18EZ** 900MHz 14.8db 18el 5'4"boom | 119.99 |
| **MSQ FAST MAST** 20' extended port alum mast | 89.99 |
| **MSQ KT-36XA** 20/15/10m 6el 32' boom beam | 1299.99 |
| **NOO NODS-5** 5x48 night vision scope w/illumin | 199.99 |
| **NOO NONW24-BPHT** 2.4x night vision/illumin | 119.99 |
| **NOO NOXG-2** 3x G2 night vision scope w/illumin | 849.99 |
| **ORE WMR-112A** Wireless weather station | 139.99 |
| **SGC 54-23** Stealth Kit SG-237 w/loop ant | 349.99 |
| **SGC 54-26** SG-211 60w mini Smartuner | 169.99 |
| **SON ICF-SW07** AM/FM/SW micro Rcvr w/ps | 399.99 |
| **SON ICF-SW40** AM/FM/SW portable receiver | 99.99 |
| **TRX 2410** Bandit RTR electric buggy w/TQ radio | 99.99 |
| **TRX 3606** Stampede RTR electric monster truck/ESC | 149.99 |
| **TRX 3706** Rustler RTR electric stadium truck/ESC | 129.99 |
| **TRX 3710** Rustler RTR electric stadium truck/TQ Tx | 109.99 |
| **TRX 3906** E-Maxx RTR electric monster truck | 289.99 |
| **UNI BC-244CLT** 30 ch scanner w/instant WX | 99.99 |
| **UNI BC-248CLT** 50 ch scanner w/WX alert | 109.99 |
| **UNI BC-278CLT** 100ch scan/800/SAME WXalert | 129.99 |
| **UNI BC-796D** 1000 ch pock/tnk/SAME WX/dig | 549.99 |
| **UNI BCI-25D** Digital board; BC-785D/250D | 169.99 |
| **UNI Polaris** 25w VHF marine Xcvr w/hailer | 139.99 |
| **UNI SC-180B** 100 ch sport pocket/800 MHz | 139.99 |
| **UNI SC-200** 200 ch sport pocket/800 MHz | 159.99 |
| **VAL AB-5** 75/40/20/15/10m mobile antenna | 109.99 |
| **VEC VC-300D** 300w digital antenna tuner | 149.99 |
| **YAE DVS-2** Digital voice module; Mk V/Field | 239.99 |
| **YAE FC-10** External coax fed auto tuner | 429.99 |
| **YAE FC-20** Automatic antenna tuner; FT-847 | 289.99 |
| **YAE FC-800** External long wire auto tuner | 469.99 |
| **YAE FH-1** Remote control keypad; Mk V/Field | 94.99 |
| **YAE FIF-232C** RS-232 interface;FRG100B/FT840 | 99.99 |
| **YAE FP-29** 30vdc ps; FTV-1000/orig MP/Field | 569.99 |
| **YAE FRG-100B** .1-30 MHz shortwave receiver | 529.99 |
| **YAE FT-840** HF Xcvr/SW Rcvr/mic | 599.99 |
| **YAE FT-1000MP Mk V** 200w HF Xcvr/EDSP/tnr/ps | 2269.99 |
| **YAE FTV-1000** 200w 6m transverter; Mk V | 949.99 |
| **YAE GA-3000** Twr absorber joint; G-1000/2800 | 129.99 |
| **YAE LL-7** Phone patch unit for SP-8 | 149.99 |
| **YAE SP-8** External speaker w/filters; Mk V/Field | 174.99 |
| **YAE TCXO-4** TCXO unit; FRG-100B/FT-840 | 109.99 |
| **YAE TCXO-6** Deluxe TCXO unit, Mk V/Field | 189.99 |
| **YAE TCXO-7** TCXO unit; FT-920 | 99.99 |
| **YAE XF-117A** 6 KHz AM filter; FT-100D | 129.99 |
| **YAE XF-117CN** 300 Hz CW filter; FT-100D | 79.99 |
| **YAE YF-110CN** 250Hz CW filt;FRGMkV&Field | 159.99 |
| **YAE YF-110SN** 2KHz SSB filter; Mk V/Field | 159.99 |
| **YAE YF-112A** 6 KHz AM filter; FT-840 | 129.99 |
| **YAE YF-112C** 500 Hz CW filter; FT-840 | 129.99 |
| **YAE YF-114CN** 250Hz CW filter; Mk V/Field | 159.99 |
| **YAE YF-114SN** 2KHz SSB filter; Mk V/Field | 159.99 |
| **YAE YF-115C** 500Hz CW Collins filt;FRGMkV&Field | 169.99 |
| **YAE YF-115S-02** 2.5KHz Collins SSB filt;FT847 | 169.99 |
| **YAE YF-116A** 6 KHz AM filter; FT-920 | 119.99 |
| **YAE YF-116C** 500 Hz CW filter; FT-920 | 119.99 |
| **YAE YSK-100** Separation kit for FT-100D | 89.99 |
| **YAE YSK-8100** Rem separation kit; FT-8100R | 74.99 |



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DUAL BAND

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IC746PRO HF/6/2 XCVR 1,199.99mcf
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MH37A4B EARPIECE/MIC 34.99mc
MH57A4B SPKR MIC 27.99cv
MKVFIELD HF XCVR 1,664.99c
NC55B CHARGER 11.99v
NC82 CHGR STAND 9.99c
PA30B AC ADAPTER 6.99c
SU1 ALT/BARO SEN 32.99mc
TCXO6 HI STABILITY OSC 170.99c
VAC370 RAPID CHARGER 71.99c
VC25 VOX HEADSET 62.99c
VR120 RECEIVER 152.99c
VR120D RECEIVER 179.99c
VR5000 ALL MODE RCVR 539.99f
VXR7000VA 50W 2M RPTR 1,142.99fv
VX150 2M HT 114.99m
VX5R OPERATING MANUAL 14.99v
VX6R 2M/70CM HT 224.99m
YA007FG ANTENNA 134.99m
YF110CN 250HZ CW FLTR 143.99c
YF114CN 250HZ CW FLTR 143.99c
YF114SN 2KHZ SSB FLTR 143.99c

### Please use these lists as a Guide

The Used and Demo Gear lists are compiled from an actual inventory on March 1, 2006. Due to daily turnover, the actual items may or may not be available. Please check our website or call any AES store to check availability.

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**TRADE/UPGRADE • We need your Clean SSB & FM Gear – Call for our Quote Today!** (sorry, no Handhelds)

## From the AES Archives ...

The Collins display in our old Chicago store (1965). That's our Store Manager, "Doc" Wessels, W9HJS, showing off the gear.

# Engineering, Quality, Value

## DJ-S45T 440 MHz "Micro" HT

***Tiny, but tough.*** Rugged polycarbonate design resists impacts, dust & moisture. Features New Quick Repeater Access Mode, 100 memories; any mix of simplex or repeater channels, CTCSS encode and decode (separately programmable). Computer programmable with optional cable, free software at www.alinco.com. Flexible power choices; works on 2 AA batteries, optional Lithium-ion battery pack or 6 VDC external power sources. 2w on 6VDC, TX/RX on entire USA UHF Amateur band; 420~450 MHZ*, Extended receive 420 ~ 474 MHz, Large backlit display, SMA Antenna port, Speaker mic, computer programming and external power ports.

## DJ-C7T 2m+440 "Pocket" HT

***Meet the "new generation" mini-HT!*** Internal speaker with great audio, 200 memories, VFO, Memory & Scan modes, CTCSS encode+decode, AM airband RX, wideband FM broadcast, 300mw output, SMA antenna port, Lithium ion battery, cloning feature, split function and more! ***Extremely versatile dual-band HT.***

## DR-635T 2M/440MHz Mobile/Base Transceiver

***Full Duplex operation!*** Cross-band repeat, remote mountable control head, newly designed RF circuitry for increased resistance to interference, plus automatic temperature protection circuit. Alphanumeric changeable color display, 200 memories, H/M/L output, ignition key on/off, theft alarm, extended receive, backlit DTMF mic and more! Optional TNC or digital voice module and remote mount kit available.

## DJ-196T (2m), DJ-296T (222 MHz), DJ-496T (440 MHz) HT

Backlit keys, alpha display, autodial, 40 memories, CTCSS and DCS encode+decode, 13.8 VDC input, and more! High-power battery is standard. ***Extra handy!***

## DJ-S40TD 440 MHz HT

Pocket HT features 500 mw output on AA cells, up to 1 watt using an optional NiMH battery. 100 memories, CTCSS encode+decode, SMA antenna, great audio, theft alarm and more! ***Extremely small but packs a punch.***

## DJ-V5TH, 2m/440 HT*

Great 2m/440 TX & RX, extended RX range from 76 ~ 999 MHz, wide band FM, alpha display, 200 memories, CTCSS & DCS encode+decode, 5 watts output, compact size, 4 scan modes, split-band ops, auto-dialer, 13.8 VDC direct input. ***Excellent performer!***

## DR-135T/TP MKII (2m), DR-435T MKII (440 MHz), DR-235T (222 MHz) Mobile/Base

DR-135 includes AM Airband RX. All models have 100 memories, ignition key on/off, theft alarm, large 7 character alpha display, optional internal TNC can be used for packet or APRS™, 9600 packet mode, front data/GPS input, rear DSUB9 connector, H/M/L power out, autodialer, CTCSS and DCS encode+decode, backlit mic, ***Extra rugged!*** Accepts optional digital voice communications board.

## DJ-596T MKII 2m+440 HT

100 memories, alpha channel labels, NiMH battery, CTCSS and DCS encode+decode, WFM+NFM, theft alarm, 6 ~ 16 VDC input, illuminated keys and display, autodialer, full coverage of both bands, Expanded receive, optional digital voice communications board and more! ***Extend your abilities!***

## DR-620T 2m+440 Mobile/Base

***Exceptional features!*** Remotable head, speaker faces up or down, changeable color alpha display, 200 memories, H/M/L output, V/U, V/V, U/U, WFM and AM Air Extended RX, TCXO, theft alarm, ***options include TNC or digital voice module, remote mount kit.***

## DR-MO6TH 6m/20 watts FM Mobile/Base

***"Magic band" Excitement*** with local and DX FM contacts, simplex or through repeaters. ***Includes CTCSS encode and 100 memories.***

## DX-70TH (100w) HF+6m Mobile/Base/Portable

160~6m Amateur band TX in all modes, Extra coverage RX from 150 KHz~30 MHz and 50~54 MHz. Remotable face, 100 memories, 2 VFOs, speech compressor, SSB, CW and AM narrow filters, fullbreak-in, multi-function control and MUCH more! ***Optional accessories include EDX-2 wire antenna tuner & DM-330MVT power supply.***

## DX-77T HF Base/Portable

***Excellence at a great price!*** 160 ~ 10 meter Amateur band TX all modes; 500 KHz ~ 30 MHz general coverage RX. Clean, clear audio, low noise floor from DDS, 100 memories, easy to operate. ***Speech compressor, CTCSS encode for 10m FM operation, CW filter.***

www.ALINCO.com

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Products intended for properly licensed operators. Permits required for MARS use. CAP use subject to equipment approval. Specifications subject to change witout notice or obligation. Performance specifications only apply to amateur bands. *Cellular blocked in USA. Unblocked versions available to qualified users, documentation required.

NOTICE: Effective 5/1/2004, ALL warranty claims and requests for repair/technical assistance for Alinco products should be sent to Ham Distribution, Inc. regardless of contact information found on the warranty certificate packed with the product.

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*AMATEUR RADIO'S VALUE LEADER™*

## WIDE BAND RECEIVER

**DJ-X7T** "Credit card" Size Receiver Catch the action on fire, public safety, traffic and many other frequencies, or just enjoy your favorite music and news on radio or TV stations with a receiver that fits in your shirt-pocket! Receives 100 kHz to 1.3 GHz (cell blocked); Triple conversion AM/NFM, double conversion WFM; 1000 memories; Five operating modes: Preset, programmed, memory, VFO and scan; Lithium-ion battery pack allows operation for almost a full day without recharging; 39-tone Tone squelch; Attenuator (approx 20db); Auto-Power-Off; Battery-save; Priority receive; Monitor/Mute; Memory-save; Cable-clone; Key-lock; Pager function alerts you with a beep and an icon when a signal is received; Illuminated LCD; Key-touch beep on/off switch.

Dim: 3.7"h x 2.2"w x 0.57"d; 3.62 oz..... **$169.99**

***Available Accessories***
**EBP58N** Lithium-ion battery, **EDH32** Cigarette lighter cable, **EME18** Earphone, **EME25** Curl cord earphone, **ERW4** PC cable, **ESC38** Soft case

## UHF SINGLE BAND HANDHELDS

**DJ-S40T** Pocket-sized UHF HT – Covers 420 to 450 MHz, with receiving capabilities beyond the range. 500mW power output; can be increased to 1W by using optional NiMH or external DC supply. 100 memories; Call channel and several scan modes; Newly designed case that conceals the speaker but provides loud, clear audio; 38 CTCSS en/decode settings (decode standard); 4 tone bursts, making it usable for repeaters in many parts of the world; Large, easy-to-read, illuminated display; Experimental "mosquito repelling feature"; Theft alarm function; Cloning capability; Use with crossband transceivers (base or mobile dualband) as a "remote mic"..... **$89.99**

***Available Accessories***
**EBC6** Mobile HT bracket, **EBP52N** 3.6V 500mAh NiMH battery, **EBP53N** 6V 500mAh NiMH battery, **EBP54N** 3.6V 1500mAh NiMH battery, **EDC105** Drop-in NiMH charger without power supply, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDC93** Wall power supply for EDC105, **EDH31** Dry cell battery case, **EME12** Headset/ earphone/microphone with VOX, **EME13** Headset/ear bud/microphone with VOX, **EME15** Earphone/microphone with VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker microphone with volume control, **EMS8Z** Remote speaker mic, **ESC37** Soft case

**DJ-S45T** 440MHz FM HT A compact design that offers a full range of features plus a choice of power options in a rugged polycarbonate design that is resistant to rain, dirt and dust. TX: 420-450 MHz; RX: 420-474 MHz (MARS modifiable). 100 memories and three types of Scan functions (VFO, Memory, Tone) with timed and busy settings. Three different Tone Burst tones. Thirty-nine separately selectable CTCSS encode and decode tones, Tone Call and Bell (pager). Nine tuning steps and 1 MHz shift to quickly tune frequency. Power Output: 2W with 6.0V external DC power source, approx. 1W with optional EBP-60 Li-Ion pack, approx. 0.5W with 2 Alkaline AA cells and approx. 0.4W with 2 Ni-MH rechargeable AA cells. The low power TX position gives approx. 0.5W at 6.0Vdc and approx. 150mW at 2 AA Ni-MH cells. Back-lit, Easy-to-Read LCD display. Advanced Quick Repeater Access mode allows recalling previously set parameters with just 2 key actions regardless of current frequency setting. Unlike other auto-repeater settings that limit the frequency range, these repeater-access parameters can be set separately from the original default parameters. Computer-programmable with free software downloadable from Alinco website (with optional ERW-4 cable). SMA port and lightweight flexible whip antenna, Mic/SP/EXT-DC ports. Includes belt clip and hand-strap. Dim: 2.24"w x 3.86"h x 1.17"d, 0.36 lb inclusive of 2 AA alkaline cells and antenna... **$119.99**

***Available Accessories***
**ERW-4** PC Cable

# Exacting Standards Deliver Extraordinary Results

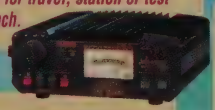
### DJ-X7T Wide Range Pocket Size Communications Receiver *100KHz to 1.3GHz**

***Triple conversion AM/NFM; double conversion WFM, plus FM, SW, and TV***

Super small "credit card" size (as thin as 14.5 mm, as light as 103g) delivers AMAZING audio quality! Easy to read illuminated LCD, 1,000 memory channels, five operating modes, three different antenna modes, easy to program with free downloadable software (optional cable required), cable-clone, and a long-lasting Lithium ion battery! Standard adapter charges the Li-Ion battery AND operates with AC power, even at the same time, so you can listen while charging.

### DM-330MVT Communications Grade Switching Power Supply

***Alinco's Experts have reinvented the power supply!*** Extremely quiet with a patented noise shift circuit, but we'll be surprised if you ever need to use it. It's small, lightweight and powerful! 30A continuous, 32A peak output, but weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, lighted V/A meter, front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p. ***Extra versatile, use for travel, station or test bench.***



### EDX-2 Automatic Wire Antenna Tuner

***Extreme users want to get on the air fast!*** Ground it, connect a wire and plug it into your rig. Tunes random length wires from 9 ~ 80 feet. Covers 160 ~ 10 meters. (minimum 40 feet of wire needed for use on 160m) Compatible with DX-70 and DX-77 transceivers. Made for indoor/outdoor mounting, use at home, mobile or in the field. Outputs directly to a wire or whip antenna only (no coax output).

### DJ-X2000T Multimode Wide Range "Intelligent" Receiver

***Monitoring Excitement*** is found in the "Intelligent Receiver" from 100 KHz ~ 2150 MHz* with 2000 memories, alphanumeric labeling, receives AM, WFM, NFM, LSB, USB, CW and FM stereo.** On-line "help" feature, 20 scan programs, computer programmable (download free software from Alinco website), Channel Scope™ display, Transweeper™, RF frequency counter, digital sound recorder, CTCSS decode, 2 level attenuator, field strength meter, ***instant "flash tune" and many Extras!***

### DJ-X3TD Multimode Wide Range Communications Receiver

***Exceptional and unique!*** Small but powerful. Receives 100 KHz ~ 1.3 GHz*, AM, NFM, WFM. 700 memory channels, dry cell battery pack, four scan modes, stereo FM reception.** ***Download free control software from www.alinco.com***

www.**ALINCO**.com



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*Cellular blocked in USA. Unblocked versions available to qualified users, documentation required. **Optional stereo headphones required. Specifications subject to change without notice or obligation.

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## SINGLE BAND HANDHELDS

**DJ-196T** 2 Meter HT – 5W output; 135–174 MHz receive; 40 multi-function memory channels; MAR/CAP capability; Alpha-numeric display; CTCSS tone encode/ decode & DCS; S-meter; Auto dialer; Cable cloning; Computer programming capability; Theft alarm; Experimental insect repeller; Back lit keypad. Dim: 4.9"h x 2.2"w x 1.6"d; 13.2 oz **$119.99**

**DJ-296T** 220 HT – Same as DJ-196T except has a range of 222-225 MHz..... **$149.99**

**DJ-496T** 440 HT – Same as DJ-196T (above) except has a range of 430-450 MHz..... **$149.99**

*Available Accessories*
**EBC6** Mobile HT bracket, **EBP50N** 9.6V 700mA 5W NiMH battery, **EBP51N** 9.6V 1500mA 5W NiMH battery, **EBP56N** 7.4V 1000mAh lith-ion battery, **EDC111** Charger for EBP56N, **EDC16B** Cigarette lighter cable and filter, **EDC36** Angle plug power cable with filter, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDC88** Rapid charger, **EDC93** Wall charger with power supply, **EDC97** NiMH quick charger, **EDH30** Dry cell battery case, **EME12** Headset/earphone/microphone with VOX, **EME13** Headset/earbud/microphone with VOX, **EME15** Earphone/microphone with VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker microphone with volume control, **ERW4** PC cable, **ESC36** Soft case for EBP48N

**DJ-S11T** Sub-Miniature VHF HT – TX/RX: 144–148 MHz; 340 mW output; 20 multi-function memories plus 1 call; Encoder installed (50 tones); Illuminated display; Uses 3 "AA" or NiCad batteries; Pivoting antenna. Dim: 4"h x 2"w x 1"d; 6.5 oz..... **$79.99**

*Available Accessories*
**EBC6** Mobile HT bracket, **EDC78** Wall charger (not alkaline), **EDH18** 12V/5.5V DC cigarette lighter plug, **EME12** Headset/earphone/microphone with VOX, **EME13** Headset/earbud/microphone with VOX, **EME15** Earphone/microphone with VOX, **EME20** Tie-pin microphone/earphone, **EME6** Earphone, **EMS47** Speaker microphone with volume control, **ESC27** Soft case

## ORDER ON-LINE!

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## USE YOUR CREDIT CARD

## DUAL BAND HANDHELDS

**DJ-C7T** Credit Card Size VHF/UHF Dual Band Micro Handheld Covers 2M and 440 FM amateur bands and receives wide-band broadcast FM, AM aviation band and VHF/UHF utilities up to 512 MHz. TX/RX: 144-147.995, 430-449.995 MHz. RX: FM broadcast (87.5-107.995 MHz), AM aircraft (108-173.995) and 380-511.995 MHz. AM/FM/WFM. modes. Power: 300mW with supplied 3.7V Lithium-ion battery or 500mW with external 6V power source. 200 memory channels; 5 pairs of program scan band; Priority watch; 3 types of scan including CTCSS tone search; Split-operation; CTCSS encode and decode; TSQ and 4 European burst tones standard; Programmable shift width and direction; Internal speaker, SMA antenna port; Mic./earphone/DC jacks; Cable cloning; Battery saver; Auto Power off. Dim: 2.3"w x 3.8"h x 0.57"d; 3.6 oz ..... **$169.99**

*Available Accessories*
**EBP58N** Lithium-ion battery, **EDH32** Cigarette lighter cable, **EME18** Earphone, **EME24** Earphone/microphone, **EME25** Curl cord earphone, **EMS60** Speaker/microphone, **ERW4** PC cable, **ESC38** Soft case

**DJ-596T MK II** 2M/440 MHz Dual Band HT – The first Amateur HT to support optional Digital Voice communications. 5W output on both bands with standard NiMH battery; Wide or narrow FM; Digital voice optional; Extended receive capabilities; CTCSS and DCS encode and decode; Three scan modes; Work and save in memory any number of "odd split" transmit and receive offsets; Illuminated keys and display; Large display shows alphanumeric designations for each of the 100 memories; Theft alarm and experimental "mosquito repelling sound"; 9 autodial memories; ± 2.5ppm crystal; External terminal control can output 5 VDC @ 5mA from mic jack, can be used by experimenters to control external devices; Operates on 6-16VDC, battery charges while on external source. Dim: 4.9"h x 2.2"w x 1.6"d; 13.2 oz ..... **$209.99**

*Available Accessories*
**EBC6** Mobile HT bracket, **EBP50N** 9.6V 700mAh 5W NiMH battery, **EBP51N** 9.6V 1500mAh 5W NiMH battery, **EBP56N** 7.4V 1000mAh lith-ion battery, **EDC111** Charger for EBP56N, **EDC16B** Cigarette lighter cable and filter, **EDC36** Angle plug power cable with filter, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDC88** Rapid charger, **EDC93** Wall charger with power supply, **EDC97** NiMH quick charger, **EDH30** Dry cell battery case, **EJ47U** Digital board, **EME12** Headset/earphone/mic with VOX, **EME13** Headset/ear bud/microphone with VOX, **EME15** Earphone/ microphone with VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic with volume control, **ERW4** PC cable, **ESC36** Soft case for EBP48N, **SW596** Windows programming software

## DUAL BAND HANDHELD

**DJ-V5TH** VHF/UHF Dual Band FM HT – Full 2 meter and 440 Amateur band coverage. Standard high-power 700 mAh NiCad battery pack – up to 5W output; 3 output settings; Expandable receive range 76–999 MHz (cellular blocked), includes wide FM capability; Split-band operation capability; Eight different tuning steps; Alpha-numeric display – up to 6 characters; 200 memory channels plus two call channels; CTCSS encode and decode; DTMF squelch; 4 different European tone bursts; 4 scan modes and 5 programmable scan banks; MARS and CAP capability; Auto-dial memories; Auto high temperature protection feature; SMA connector; Wire cloning capable; Accepts up to 13.8V DC input. Dim: 4.5"h x 2.25"w x 1.75"d; 13 oz..... **$209.99**

*Available Accessories*
**EBP46N** 9.6V 600mAh 5W NiCad battery, **EDC16B** Cigarette light cable with filter, **EDC36** Angle plug power cable with filter **EDC37** 13.8V power cable **EDC43** Cigarette lighter cable, **EDC91** Quick charger, **EDH29** Dry cell battery case, **EME12** Headset/earphone/microphone with VOX, **EME13** Headset/ear bud/microphone with VOX, **EME15** Earphone/ microphone with VOX, **EME20** Tie-pin mic/earphone, **EME6** Ear-phone, **EMS47** Speaker mic with volume control, **EMS8Z** Remote speaker mic, **ESC35** Soft case for EBP45N/46N

**ICOM**

## SINGLE BAND HT

**IC-T2H SPORT** 2M Handheld – 6W @ 9.6 VDC; 136-174 MHz RX; 43 memories; CTCSS encode & decode standard, with pocket beep & tone scan; 8 programmable keys; 5 DTMF memories, with 32-digit codes & redial; 10 weather channels; Direct keypad frequency entry; Back-lit LCD; Auto repeater and "intuitive" help functions; 2-step power save; Monitor and lock functions; Die-cast aluminum chassis and polycarbonate casing; MIL SPEC C/DE rating; Includes battery holder. Dim: 2.3"w x 5.5"h x 1.3"d; 14.8 oz..... **$99.99**

*Available Accessories*
**AD81** Adapter for BC11911, **BC110A** Wall charger, **BC119N01** Desk charger, **BC122A** AC adapter for BC133, **BC133** Drop-in trickle charger, **BP194** "AA" alkaline battery case, **BP195** 9.6V 700mAh battery, **BP196** 9.6V 1050mAh battery, **CP12L** Right angle cigarette cable with filter, **CP17L** Right angle cigarette cable for charger, **CST2** DOS programming software, **CSWHH4** Windows software with cable, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM54** Heavy-duty speaker mic, **HM75A** Remote control mic, **HS51** Headset/VOX, **HS94** Earpiece headset/use with VS1L, **LCF3SWIVEL** Leather case with swivel, **LC145** Carrying case, **MB68** Extra standard belt clip, **MB74N** Spring loaded belt clip, **MB87** Swivel belt clip, **NCP1** nylon chest pack, **OPC254L** Right angle mini DC cable, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232C cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94


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# Icom HTs – Fun to go!

## IC-V82 / IC-U82

2m @ 7W or 70cm @ 5W | Optional D-STAR format digital unit for voice and data communication! Features include Callsign Calling, Up to 20 character text message, Position Exchange* | And More!

## IC-T90A

6m/2m/70cm @ 5W | Wide Band RX†.495 - 999.99MHz | 500 Alphanumeric Memories | CTCSS & DTCS Encode/Decode w/Tone Scan | Weather Alert | PC Programmable†1

## IC-T7H

2m/70cm @ 6W | RX 118-174 MHz & 400-470MHz | 70 Memory Channels | CTCSS Encode/Decode w/Tone Scan | Auto Repeater Function | PC Programmable†1

## IC-V8

2m @ 5.5W | 136-174 MHz (RX) | 100 Alphanumeric Memories | CTCSS & DTCS Encode/Decode w/Tone Scan | Auto Repeater Function | PC Programmable†1

## IC-T2H SPORT

2m @ 6W | 40 Alphanumeric Memories | Alkaline Case | CTCSS Encode/Decode w/Tone Scan | Auto Repeater Function | PC Programmable†1

## IC-W32A

2m/70cm @ 5W | 200 Alphanumeric Memories | V/V, U/U, V/U Operation | Crossband Operation | True Simultaneous Receive | DTMF Auto Dialer w/Memory | Auto Repeater Function | PC Programmable†1

### 1.5W/1.0W OUTPUT POWER

### WIDEBAND RECEIVER 0.495–999.990MHZ*

Listen to FM, TV (audio) broadcasts and other communications.

*Cellular blocked on U.S. version

### 1000 ALPHANUMERIC MEMORY CHANNELS

With flexible memory bank system.

### UP TO 20 HOUR OPERATING TIME

Or 15 hours of continuous TV/FM receive with slim Lithium-Ion battery pack (Tx:Rx:Standby=5:5:90, with power save on).

### VHF/UHF DUAL BANDER

Work 2m or 70cm, one band at a time.

### 10dB ATTENUATOR

### RAPID CHARGER INCLUDED

Supplied rapid charger, BC-164, charges the battery pack in approx. 3 hours.

### CTCSS AND DTCS TONE

For repeater access and quiet stand-by.

### WEATHER ALERT

U.S. version only.

### AUTO MEMORY WRITE SCAN

Stores detected busy channels in the auto memory write bank. You can even transfer them to the regular memory channels.

Today's handheld electronic devices look cooler than ever. The P7A kicks things up a notch, packing great 2m/70cm features and performance into the smallest Icom handheld ever made! Now at AES!

## NEW IC-P7A: POCKET ROCKET

### ULTRA COMPACT, LIGHTWEIGHT BODY

Under 2 inches wide and about 3 inches tall! Plus, the P7A weighs a scant 5.6 ounces – battery and antenna included!

### ACTUAL SIZE

Approx. 1.9" w × 3.1" h × 0.5" d
projections not included

**For the love of ham radio.**

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## SINGLE BAND HTS

**IC-V8** 2M FM HT – None easier to use! Covers 144-148 MHz; 5.5W output; 100 easy to recall alphanumeric memories; Scans 40 channels per second; Personalized scanning ranges; Up/Down and Rotary controls; CTCSS/DTCS encode/decode; Tone scan; PC programmable to set-up parameters; Acoustical design for best audio; Full-sized input keypad; Durable polycarbonate front panel and aluminum die-cast chassis built to MIL specs. Includes a drop-in trickle charger.

Dim: 2.13"w x 5.2"h x 1.4"d; 12.3 oz..... **$129.99**

*Available Accessories*

**AD101** Battery adapter for BP211 and BC119N01, **AD9411** Adapter cup for BC119N01, **BC119N01** Desk charger, **BC144N** Rapid Desk Charger, **BC14401** Desk Charger, **BP208N** Battery case, **BP209N** 7.2V 1100mAh 5.5W battery, **BP210N** 7.2V 1650mAh 5.5W battery, **BP211N** 7.4V 1800mAh Li-ion battery, **BP222N** 7.2V 600mAh 5.5W battery, **CP17L** Right angle cigarette cable for charger, **CSV8** Cloning software, **HM128L** Earphone + mic, **HM158L** Rectangle speaker/mic/earphone jack/clip, **HM46L** Slim-line speaker mic with right angle plug, **HM54** Heavy-duty speaker mic, **HM75A** Remote control mic, **HS51** Headset/VOX, **HS94** Earpiece headset, **LCF3GSWIVEL** Leather case with swivel, **MB103** Spring loaded belt clip for N-Series battery, **MB68** Extra standard belt clip, **MB74N** Spring loaded belt clip, **MB86** Swivel belt clip, **MB87** Swivel belt clip, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC515L** Right angle DC cable for charger, **SP13** Earphone, **UT108** DTMF decode unit, **VS1L** Right angle VOX-PTT unit for HS94

**IC-V82** 2M High Power Digital Capable Handheld – 7W output @ 7.2V DC; 6.0 - 10.3V DC input; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice and slow data comm. (20-character short data message, digital code squelch, EMR comm., digital pocket beep, Stand-by beep); Built in CTCSS/DTCS; Auto low power/power saver (30mA drain); 200 memories (10 memory banks); VHF/UHF air band receive; Auto repeater function; Backlit display; PC cloning capability; NOAA weather channel RX (IC-V82 USA ver. only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included. Dim: 2.1"w x 5.5"h x 1.4"d; 13.8 oz..... **$169.99**

**IC-U82** – Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; 5W ..... **$169.99**

*Available Accessories*

**BC144N** Rapid desk charger, **BP208N** Battery case, **BP209N** 7.2V 1100mAH 5.5W battery, **BP210N** 7.2V 1650mAH 5.5W battery, **BP211N** 7.4V 1800mAH lith-ion battery, **BP222N** 7.2V 600mAH 5.5W battery, **CSV82** cloning software, **HM128L** Rectangle plug earphone + mic, **HM158L** Rectangle speaker/mic/ear-jack/clip, **HM75A** Remote control mic, **HS85** Headset w/VOX, **HS94** Earhook headset w/boom mic, **MB103** Spring belt clip, **MB86** Swivel belt clip, **OPC474** Cloning cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **SP13** earphone, **UT108** DTMF decoder unit, **UT118** Digital unit (digital voice and data capability at 4.8kbps - voice and data), **VS1L** PTT/VOX unit

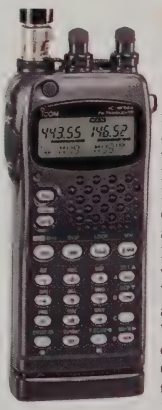
## DUAL BAND HTS

**IC-T7H** 2M/440 MHz Dual Band HT – 5W with standard 9.6V/650mAh battery or up to 6W @ 13.5VDC (optional DC power cable required); TX: 144-148 MHz & 440–450 MHz; RX: 118–174 MHz & 400–470 MHz; One-touch band switching; Priority watch; 70 memories with 9 DTMF for auto dialing; CTCSS tone encode & decode; 50 independently programmable tone frequencies; Auto power save; Auto repeater function; Auto Off; Thumb-touch lock; Internal guide; Backlit LCD; Wall charger; PC Programmable.

Dim: 2.3"w x 4.8"h x 1.1"d; 14.3 oz ..... **$199.99**

*Available Accessories*

**AD56** Battery pack adapter/rapid charger, **BC110A** wall charger, **BC119N11** NiCad/NiMH desk charger, **BP170** Battery case, **BP172** 4.8V 950mAh battery, **BP173** 9.6V 600mAh battery, **BP180** 7.2V 600mAh battery, **CP12** Cigarette cable with filter, **CP12L** Right angle cigarette cable with filter, **CSWHH4** Windows software with cable, **FA1443B** 2M/440 duck, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM54** Heavy-duty spkr mic, **HM75A** Remote control mic, **HS10** Boom mic/headset, **HS10SA** VOX unit, **HS10SB** PTT Switchbox, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC136** Case for T7H with BP170/171/172, **LC137** Case for T7H with BP173/180, **NCP1** Nylon chest pack, **OPC254** Mini DC power cable, **OPC254L** Right angle mini DC power cable, **OPC474** radio clone cable, **OPC478** PC RS232C cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94



**IC-W32A** 2M/440 MHz Dual Band HT – TX: 144-148 & 440-450 MHz; RX: 118-174 & 400-470 MHz; 5W output @ 13.5V DC; 200 memories; 8-character alphanumeric memory identification; Keypad entry; Back-lit display and keypad; HT-to-HT cloning capability or PC programming (optional accessories required); Independent tuning and volume and band controls; VHF/UHF exchange function allows assignment of VHF/UHF band controls to either knob; Meets MIL SPEC C/D/E for shock and vibration. Dim: 2.25"w x 5.5"h x 1.4"d; 16 oz ..... **$289.99**

*Available Accessories*

**AD51** Battery pack adapter/rapid charger, **BC110A** wall charger, **BC119N11** NiCad/NiMH desk charger, **BP170** Battery case, **BP172** 4.8V 950mAh battery, **BP173** 9.6V 600mAh battery, **BP180** 7.2V 600mAh battery, **CP12** Cigarette cable with filter, **CP12L** Right angle cigarette cable with filter, **CSWHH4** Windows software with cable, **CSW32** DOS programming software, **FA1443B** 2M/440 duck, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM54** Heavy-duty speaker mic, **HM75A** Remote control mic, **HS10** Boom mic/headset, **HS10SA** VOX unit, **HS10SB** PTT Switchbox, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC128** Carrying case, **NCP1** Nylon chest pack, **OPC254** Mini DC power cable, **OPC254L** Right angle mini DC power cable, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232C cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94

## DUAL BAND HT

**IC-P7A** Dual band HT Covers 2M and 440 MHz FM. Power Output: 1.5W (2M)/1.0W (440 MHz). Wideband receive from 495 kHz to 999.99 MHz (less cellular) in AM, FM and FM-W modes. Includes AM/FM/SW broadcasts and Weather Channels with Alert. Memories: 1,000 regular channels, 50 band scan edges and 200 auto memory write channels. The regular memory channels can be grouped into 18 banks of 100 channels. Alphanumerics allow naming channels and banks with 6-digit letters and numbers and can display the channel and bank names for easy recognition. Multiple scanning types, CTCSS and DTCS tones for repeater operation, or tone squelch operation and pocket beep for quiet stand-by. Ergonomically designed and features the minimum number of buttons to provide quick and easy operation. Includes flexible SMA antenna, wrist strap, Li-ion battery pack, rapid 3-hour battery charger and AC adapter. Dim: 1.85"w x 3.1"h x 1.1"d; 5.64 oz ..... **$239.99**

*Available Accessories*

**BP243** 3.7V 1800mAh Lith-Ion Battery pack, **CP21LR** Cigarette cable with filter, **CSP7** Windows cloning software, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC161** Carrying case, **OPC478** PC RS232 serial cable, **OPC478U** PC USB serial cable, **SP13** Earphone

## TRIBAND HT

**IC-T90A** 6M/2M/70cm FM Handheld – Palm-sized, simple to operate. Designed with a die-cast aluminum chassis. MOSFET technology, along with a 7.4V Lithium-ion battery, produces a full 5W output. Wideband RX 495 kHz to 999.990 MHz (cell blocked), in AM, FM or WFM modes. Pre-programmed with TV frequencies. Unique WX Alert feature constantly checks local active weather station for alert tone. If alert occurs, the HT automatically switches to the WX channel and beeps. Scanning management with 555 alphanumeric memories (500 regular, 50 scan edges, and 5 call channels). Dynamic Memory Scan (choose any of 500 memories to scan), and with soft partitioning, setting up a maximum of 18 banks. Over-sized buttons for easy operation. Optional PC software for memory, alphanumeric, scan list and parameter customizing.

Dim: 2.28"w x 3.44"h x 1.16"d; 8.47 oz.. **$259.99**

*Available Accessories*

**AD92SMA** SMA – BNC adapter, **BC139** Desk rapid charger, **BP216** Battery case, **BP217** 7.4V 1300mAh lith-ion, **CP19R** Cigarette cable with filter, **CST90A** Windows cloning software, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM75A** Remote control mic, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC152A** Carry case, **MB83** Swivel belt clip, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94

# KENWOOD

## SINGLE BAND HANDHELD

**TH-K2AT** 2M FM HT – 5W RF output; 100 memories with 6-character names; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive (US only); Automatic simplex checker; Auto repeater offset; Mult-iple scanning functions; Pri-ority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Memory channel transfer; Time-out timer; Auto power off; Meets MIL-STD-810 standards for resistance to rain, vibration, shock and humidity; PC programming; 4 in. high-gain antenna; Charges 3x faster than previous models with its high-capacity NiMH battery..... **$139.99**

*Available Accessories*

**BT14** Six "AA" battery holder, **EMC3** Lapel clip mic/earphone PC, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **KSC24** Rapid charger, **PB43N** 7.2V 1100mAh NiMH battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4Y** 9 pin programming cable, **SC54** Soft case, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

## DUAL BAND HANDHELD

**TH-D7A(G)** 2M/440 MHz **Dual Band Data Communicator** – Equipped with a built-in TNC for simple packet operation or with a GPS as a APRS™ station that reports position, speed and heading as well as calculation of distance to destination. Use for APRS™ messaging to send up to 45 characters without a PC Power: 5.5W output @ 13.6V DC; Coverage: **(2M)** TX: 144–148 MHz, RX: 118–174 MHz, **(440 MHz)** TX: 430–450 MHz, RX: 400–480 MHz. 200 memories; Station list stores data in up to 40 memory channels; 1200 & 9600 baud TNC; Grid square locator display; Dual receive on same band for voice and data (VHF only); PC programmable for frequency and name (PG-4W required); 16 backlit keys; CTCSS encode/decode; MIL-SPEC 810C/D/E water resistant; 10 channel DTMF phone and auto patch memories; TM-V7A and TM-742D DTMF remote; Altitude; Time; 3-position memory; Audible emergency signal; Auto message response; Data band settings.

Dim: 4.7"h x 2.3"w x 1.5"d; 12 oz..... **$329.99**

*Available Accessories*

**BC19** Rapid charger, **BT11** Four "AA" battery holder, **EMC3** Lapel clip mic/earphone PC, **HMC3** VOX/boom mic headset, **J29063113** Belt clip, **PB39** 9.6V 600mAh 5W battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4W** PC software and cable, **SC47B** Black soft case, **SC47OR** Orange soft case, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

# KENWOOD

## TRIBAND HANDHELD

**TH-F6A** FM Triband HT Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked), includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW modes; Ferrite bar antenna for receiving AM broadcast; 435 memories (8 groups of 50 channels); 3 call channels plus 20 for programmable scan; Multiple scanning functions; 5W output with 7.4V 1550 mAh lithium-ion battery; Extended operation; 16-key backlit pad plus multi-scroll key; Built-in charging circuitry, battery recharges while unit operates from a DC supply; CTCSS encode/decode/DCS; Large 8-character alphanumeric display; Wireless remote control; Battery indicator; Internal VOX; MCP programming software via web (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Dim: 3.438"h x 2.3"w x 1.2"d; 8.8 oz (with battery)..... **$329.99**

*Available Accessories*

**BT13** AA battery case, **EMC3** Lapel clip mic/earphone PC, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **PB42L** 7.4V 1550mAh lith-ion battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4Y** 9 pin programming cable, **SC51** Softcase with swivel belt clip, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

# YAESU

## SINGLE BAND HT

**VX-150** 2M **Ultra-Rugged FM HT** – Packed with leading edge features. Designed to perform under the most difficult conditions. Coverage: 144–148 MHz TX, 140–174 MHz RX. 209 memories; 5W output with standard battery; Three power output levels; Wide/Narrow deviation selection; Keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™ automatic memory loading; Alpha-numeric recall; Memory bank and preferential memory scanning; VFO search; Illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ function; 1750 Hz tone calling; Programmable menu; Die-cast aluminum case; High output speaker; Battery saver; Auto power off; MIL-STD 810D/E.

Dim: 4.2"h x 2.3"w x 1.1"d; 11.5 oz ..... **Call/Web**

*Available Accessories*

**ADMS1F** Programming software, **CN3** BNC-SMA adapter, **CT27** Cloning cable, **CT44** 2-pin speaker mic adapter, **CT53** Packet cable, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 "AA" cell battery case, **FNBV57** 7.2V 1100mAh battery, **FNB64** 7.2V 700mAh battery, **LCC150/TT** Leather case, **LCC150S/TT** Leather case/swivel, **MH34B4B** Speaker mic, **MH37A4B** Earpiece and mic, **NC72B** Extra wall charger, **VAC400B** One-hour rapid charger, **VC25** VOX headset

# YAESU

## SINGLE BAND HT

VX-170 is 2M
VX-177 is 440
(VX-170 shown)

**VX-170** 2 meter FM **handheld** – A rugged, compact, high-performance FM HT delivering up to 5 watts of RF power. Similar to the VX-150, but has a larger display, double the battery capacity and significantly higher audio output. Receive coverage is from 136 to 174 MHz and 200 alphanumeric memory channels that may be partitioned into as many as 10 memory groups. A 16 key backlit keypad for direct frequency entry and 4 column DTMF Paging. CTCSS/DCS encode/decode and a Code Squelch (EPCS) that allows paging a particular station and only receive calls from that station if desired. Security passwording feature protects against unauthorized use. One-touch access to the Yaesu WIRES-II™ VOIP Internet Linking System. Extensive menu system allows tailoring the radio to your personal preferences.

**VX-177** – Same as VX-170 but 5W 440 instead of 2M. Dim: 2.4"w x 4.7"h x 1.3"d; 13.8 oz...ea. **$149.99**

*Available Accessories*

**CD26** Charger cradle, **CMP460A** Waterproof speaker/mic, **CN3** BNC-SMA adapter, **CT91** Microphone adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 "AA" cell battery case, **FNB83** 7.2V 1400mAh MIMH battery, **MH57A4B** Speaker mic, **VAC370** Rapid charger, **VC24** VOX headset, **VC27** Earpiece/mic

## DUAL BAND HANDHELDS

**FT-60R** 144/440 MHz FM **Dualband HT** – Wide RX coverage. Augmenting the transceive on 144/430 MHz, there is RX coverage of VHF/UHF TV, VHF AM aircraft, and more: 108-137, 137-520 and 700-999 MHz (cell blkd). Auto ID (EAI) feature, for search-and-rescue operations. Emergency NOAA weather access and alert with alert scan. Power: 5/2/0.5W; 1000+ memories; CTCSS/DCS encode/decode, with split tone and DCS; 9 DTMF auto-dialer memories; Two front panel programmable keys; WIRES™ access key; Programmable level RF squelch; Mono-band and memory-only modes; TX time-out timer and auto power-off; Auto repeater shift; Auto-Range Transponder System (ARTS™); NiMH long-life battery and charger. Rugged die-cast case, water-resistant.

Dim: 2.3"w x 4.3"h x 1.2"d; 13 oz..... **$189.99**

*Available Accessories*

**ADMS1J** Windows software, **CN3** BNC-SMA adapter, **CT27** Cloning cable/CT27A, **CT44** 2-pin speaker/mic adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 AA cell battery case, **FNB83** 7.2V 1400mAh NiMH battery, **MH34B4B** Speaker mic, **MH37A4B** Earpiece and mic, **VAC370** Rapid charger, **VC25** VOX headset

We accept I.M.P.A.C.® Government Credit Cards

# Tough er than Tough!

**YAESU's rugged new VX-120/170 Series of 2-m or 70-cm Hand-helds aren't just built tough. They're submersible, have a huge, easy-to-read LCD, and they provide big, bold audio (almost 3/4 of a Watt) from the huge internal speaker!**

The VX-120•170 Series are compact, high-performance Submersible FM hand-helds providing up to five Watts of RF power, along with big audio output (700 mW) for the 2-m or 70-cm amateur bands.

Protected against water ingress to IPX7 specifications (submersion for up to 3 feet/1 meter for 30 minutes), the VX-120•170 Series feature long operating times, thanks to the supplied 1400 mAh Ni-MH Battery Pack. The 8-key VX-120 Series provides the utmost in operation simplicity, while the 16-key VX-170 Series includes direct keypad frequency entry and direct DTMF input. And both models provide quick, one-touch access to YAESU's exciting and fun WiRES-II™ VoIP Internet Linking system!

- 5W FM Transceiver
- Wide Receiver Coverage
- IPX7 Submersible 3 feet (1m) for 30 minutes
- Loud Audio 700 mW via Internal Speaker
- Long Life Battery FNB-83 (7.2 V/1400 mAh) included
- Huge Display (LCD)
- Enhanced Paging and Code Squelch (EPCS)
- CTCSS/DCS included
- Security Password Feature
- Direct Keypad Frequency Entry (VX-170 Series)
- Transmit Time-Out Timer (TOT)
- Automatic Power-Off (APO)
- Automatic Repeater Shift (ARS)
- YAESU's exclusive ARTS™ (Auto-Range Transponder System)
- RF Squelch Circuit
- 200 Standard Memory Channels with 10 Memory Banks
- Alpha-Numeric Labeling of Memories
- Dual Watch (Priority Channel Scanning)
- Emergency Feature
- Smart Search Memories

IPX7 Submersible 3 feet (1m) for 30 min. | Huge LCD | Big 700 mW Audio! | 1400 mAh Long Life Battery

FM Mono Band Hand Held Transceiver

## VX-120/VX-170 Series

(8 key Version / 16 key Version)

VX-120/170 (VHF) VX-127/177 (UHF)

IPX7 Submersible 3 feet (1m) for 30 min.

Waterproofing specifications are assured only when using the genuine YAESU FNB-83 Battery Pack or FBA-25A Battery Holder. The use of after-market batteries or other accessories may compromise the effectiveness of the waterproofing.

For the latest Yaesu news, visit us on the Internet: http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details

YAESU
Choice of the World's top DX'ers™

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

# WORLD'S SMALLEST DUAL-BAND HT WITH WIDE-BAND RX

**The world's smallest Dual-Band HT with up to 1.5 Watts* of output power is your high-tech gateway to the world, via VHF, UHF, Shortwave Broadcast, Marine and Aircraft bands, or WIRES™ Internet linking!**

*1.5 W/144 MHz, 1 W/430 MHz

## SMALLEST HT WITH HIGH OUTPUT POWER

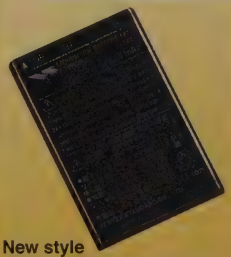
Measuring just 1.9" x 3.2" x 0.9" and weighing less than 3/10ths of a pound, the VX-2R is supplied with a 1 Amp-hour (3.7 V) FNB-82LI Lithium-Ion Battery Pack, providing up to 1.5 Watts of output power on the 144 MHz band, and 1 Watt on 430 MHz. If you supply 6 Volts of DC power from the optional E-DC-21 DC Adapter, the VX-2R puts out 3 Watts on VHF, and 2 Watts on UHF!

## WIDE BAND RECEIVE

The wide frequency coverage of the VX-2R includes the AM Broadcast band, continuous HF shortwave coverage, VHF/UHF coverage up to 729 MHz, plus 800-960 MHz (cellular blocked). So you won't miss any of the action, whether you're on the Ham bands or monitoring overseas news, FM broadcasts, TV audio, Marine or Air Band users, or Public Safety communications. Special memory banks allow quick recall of Marine, Shortwave, and NOAA Weather broadcasts (with "severe weather" alert).

## HIGH PERFORMANCE

- WIRES™ Internet Linking Key and 9-Memory DTMF Autodialer
- Over a Thousand Memory Channels (20 Memory Groups available)
- CTCSS/DCS Encode/Decode
- Automatic Repeater Shift
- Host of Convenient Scanning Features



New style High Capacity Compact Lithium-Ion Battery FNB-82LI (3.7 VDC 1 Ah)

Rugged Diecast Chassis

Supplied accessories:
FNB-82LI, Charger NC-85, Antenna, Belt Clip

Actual Size

*Simulated LCD.

# VX-2R

**Ultra-Compact 144/430 MHz Dual-Band FM Transceiver**

YAESU

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

For the latest Yaesu news, visit us on the Internet:
http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

# YAESU

## DUAL BAND HANDHELDS

**VX-2R** Ultra-compact 144/440 MHz FM HT – Powered by a Li-ion battery pack; 1.5W output on 2M, 1W on 70cm. With external DC power applied (optional), power increases to 3/2W (2M/70cm). Wide RX coverage from 500 kHz to 999 MHz (cell blkd) in AM and FM modes. Over 1300 memories; CTCSS/DCS with "split tone" capability; WIRES™ internet key; DTMF auto-dialer. Priority operation; RF squelch; Automatic Repeater Shift; ARTS™; Busy channel lock-out; Wide/Narrow deviation.

Dim: 1.89"w x 3.19"h x 0.91"d; 4.7 oz.... **Call/Web**

*Available Accessories*

**ADMS1H** Programming software, **CN3** BNC-SMA adapter, **CSC90** Soft case, **CT27** Cloning cable, **CT44** 2-pin speaker mic adapter, **EDC21** DC adapter, **FNB82LI** 3.7V 1000mAh lithium-ion battery, **MH34B4B** Speaker mic, **MH37A4B** Earpiece and microphone, **VC25** VOX headset

**VX-6R** 144/440 MHz Dualband Submersible HT – 5W power on 144/400 MHz and 1.5W on 220 Mhz EAI for rescue operations; Wide frequency coverage: 504 kHz – 998.9 MHz (cell blkd); 900 memory channels; High-capacity Li-Ion battery pack; One-touch Direct Memory Recall (DMR) access to most important memory channels; Internal temp. sensor.

Dim: 2.3"w x 3.5"h x 1.1"d; 9.5 oz..... **$249.99**

*Available Accessories*

**ADMSVX6** Programming software, **CD15A** Charger stand for NC72B, **CMP460A** Waterproof speaker/mic, **CN3** BNC-SMA adapter, **CSC91** Soft case, **CT91** Mic adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter/plug/wire only, **FBA23** 2 AA cell battery case, **FNB80LI** 7.4V 1300mAh lithium-ion, **MH57A4B** Speaker/mic, **NC72B** Extra wall charger, **SU1** Altitude/barometric pressure sensor, **VC24** VOX headset, **VC27** Earpiece/mic

## TRI-BAND HANDHELDS

**VX-7R** Ultra-Rugged, Submersible Magnesium FM

Tri-band HT With a full 5W output on 50, 144 and 440 MHz FM, 222 MHz FM band at 300mW. The rugged design allows the unit to be submersible at 3 ft. for 1/2 hour, and meets JIS-7 specification. 500 kHz to 999 MHz continuous receive (cellular blocked); Over 900 memories including 40 memory scan band limit, and 10 weather; Built-in CTCSS/DCS enc/decode; "Split Tone" capability; Auto-Range Transponding System; User-changeable icons and fonts; Full-color strobe LED; Spectrum scope display; 24-hour clock; On/Off timers; WIRES™ internet-linking; "Quick-Draw" swivel-mount belt clip; 7.4V 1300mAh lith-ion battery; Black or silver. Dim: 2.4"w x 3.5"h x 1.1"d; 9.2 oz.

**VX-7RB** Same but black case..... each **$329.99**

*Available Accessories*

**ADMS1G** Programming software, **CD15A** Rapid charger for NC72B, **CMP460A** Waterproof speaker/mic, **CN3** BNC-SMA adapter, **CSC88** Soft case, **CT91** Microphone adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter/plug/wire only, **FBA23** 2 "AA" cell battery case, **FNB80LI** 7.4V 1300mAh lithium-ion, **MH57A4B** Speaker/mic, **NC72B** Wall charger, **Q3000185** Replacement duck, **SU1** Altitude/barometric pressure sensor, **VC27** Earpiece/mic

# ICOM

## HF RADIO

**IC-706 MK II-G** Compact HF/VHF/UHF All Mode – Base station performance in a mobile sized radio. Covers 160–10M + 6M, 2M and 70cm; with broadband 0.03–200 MHz receive including AM/FM broadcast bands. 107 alphanumeric memories; Power: 100W (40W AM) on 160–6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm. RTTY; PSK31; Speech compressor; Detachable control panel; 2 filter slots; AF-DSP; Tone encode, tone scan and tone squelch; Cross band split; Noise blanker; IF shift; Preamp/attenuator; CW keyer and pitch control with reverse; Break-in; VOX; Bandscope; SWR graphic sweep; One-button duplex and automatic repeater offset; Requires 13.8V DC @ 20A. Dim: 6.6"w x 2.3"h x 7.9"d; 5.5 lbs..... **$949.99**

*Available Accessories*

**BET 706TUNECONT** Better RF IC706 tune control, **AH2B** Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF+6M auto coax antenna tuner, **CR282** Stability crystal, **CT17** Level converter, **FL100** 500 Hz 9 MHz IF CW filter, **FL101** 250 Hz 9 MHz IF CW filter, **FL103** 2.8 kHz 9 MHz IF SSB filter, **FL223** 1.9 kHz 9 MHz IF SSB filter, **FL232** 350 Hz 9 MHz IF CW/RTTY filter, **HM154T** TTP microphone, **LC156** Back pack carrying case, **MB62** Mounting bracket for main unit, **MB63** Mounting bracket for control panel, **MB65** Mounting base platform, **MB72** Carrying handle, **OPC025D** DC cord, **OPC581** 11.5' separation cable, **OPC587** 16' separation cable, **OPC589** 8-pin mic jack adapter cable, **OPC598** 23' extension cable for AT180, **OPC599** 7+8-pin–13-pin adapter, **OPC742** 13-pin cable, **PS125** 25A switching power supply, **RMK706** Remote mounting kit, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP10** Slim-line external speaker, **UT102** Voice synthesizer, **W4R ANTBOSSII** W4RT Interface, **W4R OBPUNIV** Speech compressor

## VHF/UHF DUAL BAND BASE STATION

**IC-910H** VHF/UHF All-Mode – With the optional 1200 MHz module installed, it becomes an SSB/CW/FM **tribander**. Covers 144-148, 430-450 and 1240-1300 MHz (optional). Output: 5-100W (2M), 5-75W (440 MHz), 10W (1.2 GHz optional); Memories: 99 regular, 1 Call, 6 Scan edges (per band) and 10 Satellite; Large 3.5 in. multi-function LCD display, 10-key direct frequency entry keypad; Satellite mode support; Simultaneously works 2 bands in receive and full duplex; CW full support; Versatile scanning functions; Memory pad; 50 tone CTCSS encode; Speech compressor; One-touch and Auto repeater offset; IF shift; VOX; 13.8V DC @ 23A. Dim: 9.5"w x 3.6"h x 9.4"d; 10 lbs..... **$1299.99**

*Available Accessories*

**AG25** 2M mast mount preamp, **AG35** 430 mast mount preamp, **CR293** High stability crystal unit, **CT17** Level converter, **FL132** 500 Hz main receiver CW filter, **FL133** 500 Hz sub-band receiver CW filter, **MB23** Carrying handle, **MB5** Mobile mount, **PS125** 25A switching power supply, **SM20** Stand mic for base stations, **SP10** Slim-line external speaker, **UT102** Voice synth., **UT106** DSP unit, **UX910** 10W 1.2 GHz module

# ICOM

## HF RADIOS

**IC-7000** All band Multimode Mobile Transceiver Covers HF/6M/2M/440 MHz with .03-199 MHz RX; 503 alpha memories; Power: 100W (HF+6M), 50W (2M), 35W (440 MHz). 41 bandwidths standard with sharp or soft filter shape. The variable twin PBT allows you to narrow the IF passband, or shift the entire passband to eliminate QRM. A 2.5 inch (diagonal) color TFT screen. Supports a two-mode band scope; In Center Mode, the scope is centered on the receiving frequency. In Fixed Mode the scope sweeps a fixed range. An internal memory keyer provides four memories; Detachable control head (requires optional separation cable); 503 memories; Digital RF Speech Processor; S/PWR/SWR meter; RIT; Preamp and Attenuator; RTTY Demodulator; Adjustable SSB bandwidth; DTMF memory; VOX, Full break-in CW with adjustable pitch. Comes with backlit remote microphone, spare fuses, key plug and DC power cable. Requires 13.8VDC @ 22A.

Dim: 6.56"w x 2.59"h x 7.09"d; 5.1b .....**$1499.99**

*Available Accessories:*

**AH2B** 40-6M whip with mount (use tuner), **AH2B WHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF-6M auto coax antenna tuner, **CT17** Level converter, **LC156** Back pack carrying case. **MB105** Remote head bracket, **MB106** Carry handle, **MB62** Main unit mounting bracket, **MB65** Mounting base, **OPC1443** 11.5' remote cable, **OPC1444** 16' remote cable, **OPC1457** DC cable, **OPC589** 8-pin microphone jack adapter cable, **OPC598** 23' extenion cable; AT180, **OPC599**, 7+8-pin to 13-pin adapter, **OPC742** 13-Pin cable, **RMK7000** Remote mounting package (MB62/MB105/OPC1443), **SM20** Stand microphone for base stations (OPC-589 required), **SM6** Electret desk microphone, **SP10** Slim-line external speaker, **W4R ANTBOSSII** W4RT Interface

**IC-718** HF All Band Transceiver – Perfect for beginners or backup rig. Covers 160–10M with 0.03–30 MHz RX in SSB, CW, RTTY and AM modes. 100W (40W AM); 101 memories; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/RF meter; High frequency stability; Flexible filter selection; Hand mic. included; 13.8VDC @ 20A.

Dim: 9.4"w x 3.75"h x 9.4"d; 8.5 lb..... **$599.99**

*Available Accessories*

**BET 706TUNECONT** Better RF tune control IC706/718, **AH2B** Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF+6M auto coax antenna tuner, **CR338** High stability crystal, **CT17** Level converter, **FL222** 1.9 kHz 455 kHz IF SSB filter, **FL257** 3.3 kHz 455 kHz IF SSB filter, **FL52A** 500 Hz 455 kHz IF CW filter, **FL53A** 250 Hz 455 kHz IF CW filter, **MB23** Carrying handle, **MB5** Mobile mount, **OPC025D** DC cable, **OPC598** 23' extension cable (AT180), **OPC599** 7+8-pin-13-pin adapter, **PS125** 25A switching supply, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP20** Speaker with audio filter, **SP23** Speaker with audio filter, **UT102** Voice synthesizer, **UT106** DSP unit, **W4R OBF703718DIY** CW & SSB Collins Filters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Submersible
30 minutes @ 3 feet (1 m)

Actual Size

50/144/430 MHz 5W FM Transceiver
**VX-7R**
Magnesium Silver

50/144/430 MHz 5W FM Transceiver
**VX-7R(B)**
Black Version Available

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- WEATHER BROADCAST MEMORY BANK WITH "SEVERE WEATHER" ALERT
- MARINE BAND MEMORY BANK
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- LOW-POWER 222 MHz TX (U.S. version)
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- MAGNESIUM CASE
- OVER 500 MEMORY CHANNELS
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- INTERNET KEY FOR ACCESS TO WIRES
  Wide-Coverage Internet Repeater Enhancement System

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ICOM

**IC-756PRO III HF/50 MHz All Mode Transceiver** – Retains many of the popular PROII features, including: 32 bit floating DSP with 24-bit AD/DA converter; 51 types of settable pass bandwidths; Soft and sharp filter shapes to suit operation or band condition; RTTY demodulator/decoder; AGC loop management; Real time spectrum scope, and 5 in. color TFT display. New features and performance improvements include: Improved 3rd order intercept point of +30dBm; 5 MHz band standard (USA version); Same "Mini-scope" function adopted from the IC-7800; SSB transmit bandwidth which can be adjusted for both high and low band; Improved BPF and 1st filter reduces distortion; Pre-amp changed to a noiseless feedback type to reduce 2nd order distortion; Saturation characteristics of mixer and surrounding circuits improved; Clock function displaying local time, UTC time, etc.; Screensaver function for long LCD life and reduced "burn in". Dim: 13.3"w x 4.3"h x 11.2"d; 21 lbs.... **$2999.99**

*Available Accessories*

**BET IMATE** Better RF accessory, **AH2B** Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **CT17** Level converter, **HM36** Scanning hand mic, **OPC025D** DC cable, **PS125** 25A switching power supply, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP20** Speaker with audio filter, **SP23** Speaker with audio filter, **UT-102** Voice Synthesizer

**IC-703 PLUS HF QRP Transceiver** – For home, shack, mobile DX'ing and in the field. Covers 160-10M + 6M in SSB/CW/RTTY/AM/FM modes. Power: 10W @ 13.8VDC and 5W @ 9.6VDC. Similar to the IC-706 series, but HF + 6M without VHF/UHF. Built-in, relay-type automatic HF antenna tuner; 105 memories; Memory keyer; Large capacity external battery pack and antenna options.

Dim: 6.5"w x 2.w"h x 7.875"d; 4.4 lbs .... **$699.99**

*Available Accessories*

**AH2B** Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **AH703** 40/20/15/10/6 20W 4.6' antenna, **BC155A** Battery charger/BP228, **BP228** 9.6V 2800mAh external NiCad, **CT17** Level converter, **FL222** 1.9kHz 455kHz IF SSB filter, **FL257** 3.3kHz 455kHz IF SSB filter, **FL52A** 500Hz 455kHz IF CW filter, **FL53A** 250Hz 455kHz IF CW filter, **HM154T** TTP mic, **LC156** Back pack carrying case, **MB62** Mounting bracket for main unit, **MB63** Mounting bracket for control panel, **MB65** Mtg base platform, **MB72** Carrying handle, **OPC1229** Extra DC cord, **OPC1248** IC703 to PS125 cable, **OPC581** 11.5' separation cable, **OPC587** 16' separation cable, **OPC589** 8-pin mic jack adapter cable, **OPC599** 7+8-pin–13-pin adapter, **OPC742** 13-pin cable, **RMK706** Remote mtg kit, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP10** Slim-line ext. spkr, **UT102** Voice synthesizer, **W4R OBF703718DIY** CW & SSB Collins Filters

**IC-746PRO HF/VHF All Mode Transceiver** Covers 160–10M + 6M + 2M with 0.03–60 MHz, and 108–174 MHz RX. 100W output all bands; 32-bit floating DSP and 24-bit AD/DA converter; AGC loop management; IF filter width and shape variable; All mode signal modulation/demodulation; RTTY demodulator and decoder; Digital twin PBT capability; 100 memories (10 "memo pad"); PSK-31; Built-in HF-6M automatic antenna tuner; Two antenna connectors for HF/6M; IF-DSP noise reduction, auto notch and selectable audio peak filters; Noise blanker; Spectrum scope; Twin passband tuning; Triple band stacking register; Two-step preamp; RF speech compressor; Tone squelch/scan; VOX; SmarTune™ variable speed tuning; Auto repeater offset; CW pitch control; QSO serial number generator; Transmit audio monitor; Up/down frequency mic; Requires 13.8V DC @ 20A.

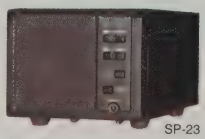
Dim: 11.3"w x 4.7"h x 12.5"d; 19.6 lbs **$1549.99**

*Available Accessories*

**BET IMATE** Better RF accessory, **AH2B** Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **CR338** High stability crystal unit, **CT17** Level converter, **HM36** Scanning hand mic, **OPC025D** DC cable, **PS125** 25A switching power supply, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP20** Speaker with audio filter, **SP23** Speaker with audio filter, **UT102** Voice synthesizer

**PW-1 HF/6 Meter 1KW Linear Amplifier** – A table-top-sized unit featuring a detachable control head which allows placing the PW-1 almost anywhere in the shack. All solid-state, no tune-up design provides a stable, clean and low distortion 1000W output from 1.8–21 + 50 MHz at 100% duty cycle (including RTTY or SSTV). Dual CPUs handle system operation, monitoring and control with memories for fast band change and antenna selection. Auto band changing; Adjustable ALC range; Full break-in operation; Four antenna connectors; Built-in automatic antenna tuner. Dim: 13.8"w x 10.6"h x 15"d; 55 lbs **$4699.99**

PS-125


SP-23

**SP-23 Speaker w/Audio Filters** – Matches Icom receivers and transceivers. Dual switchable radio input jacks and four separate audio filters: HPF 1 (500 Hz), HPF 2 (250 Hz), LPF 1 (3000 Hz), LPF 2 (1000 Hz). Speaker on-off switch; 1/4 in. headphone jack; Metal construction; Tilt-stand.

Dim: 5.75"w x 4.25"h x 11.2"d; 3.6 lbs..... **$199.99**

**PS-125 Base Station Power Supply** – Provides full 25 Amps of power for Icom radios.

Dim: 4.4" w x 3.7"h x 11.3"d; 6.6 lbs. .....**$299.99**

**IC-7800 HF/50 MHz Transceiver** – The Icom flagship radio that is a fusion of 40 years of analog RF circuit development expertise, with cutting-edge digital technology. The result, astonishing 110dB dynamic range, +40dB 3rd order intercept point in HF, and other features like a double conversion superheterodyne system, mechanical relay BPF switching and two roofing filters. The ultimate in performance, function, and quality without compromise. 1.8 to 29.7 + 50 to 54 MHz amateur transmit, 0.03 to 60 MHz general receive; USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes; SSB/CW synchronous tuning; 101 memories (99 regular, 2 scan edges), 10-character comment; Ultra high stability oven control crystal oscillator; Main and SUB receiver, external speaker connectors for each; Dual watch; RIT and ΔTX; Separate 50 MHz preamp and mixer; 5-200W (5-50W AM) output; Built-in supply (85–265VAC) and high-speed HF/50 MHz automatic antenna tuner; Voice synthesizer (frequency, mode and signal strength); Four 32-bit, floating point, DSP units and 24-bit AD/DA converters; Digital RF speech compressor; Microphone equalizer (adjustable TX bandwidth); Triple band stacking register; Multiple scan functions; Digital twin passband tuning; 16-step variable DSP noise reduction; Variable noise blanker; 7" color TFT LCD (spectrum scope S-meter, and RTTY/ PSK-31 decode messages); RTTY/PSK-31 without PC connection; Digital voice recorder (200 second RX memory, 99 second TX); CF memory card for setting storage; Multi-function, fully adjustable, electronic memory keyer (DSP waveform shaping); Double key jack system; Full break-in; 50 CTCSS tone encode/decode; UTC/local clock and timer function; Optical digital in/output; CI-V interface capability; BNC-type transverter connector; External CRT display connector; Four antenna connectors; Includes 64MB CF memory card, spare fuses, key and pin plugs, rack mount handles, AC cable, speaker plugs, ACC plugs, power plug. Dim: 16.6"w x 5.9"h x 17.1"d; 55 lbs.. **$10599.99**

*Available Accessories*

**CT17** Level converter, **HM36** Scanning hand mic, **SM20** Stand mic for base station, **SP20** Speaker with audio filter, **SP23** Speaker with audio filter

**SM-20 Electret Microphone** For Base Station operation, powered from the ICOM transceivers. Up-Down tuning; PTT switch with lock feature; Gain adjustment; Low Cut switch; ICOM 8-pin microphone plug. Compatible with the IC-7800, IC-746, 746Pro, 756, 756Pro, 756Pro II & III, 775, 781, 820, 821, 910H and 920. Use with the IC-706 series with the addition of the optional OPC-589 adapter cable..... **$199.99**

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# KENWOOD

**TS-2000** **HF/VHF/UHF All Mode Transceiver** Offers 3 platforms: (1) A traditional transceiver with full function front panel, (2) the high-tech looking "silver box" version (TS-B2000), or (3) computer controlled with software. 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz). Dual receive; High performance true IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (.5PPM); CTCSS/DCS encode/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports – 2 for HF and 6M, 1 each for 2M, 70cm, 1.2 GHz and HF receive ..... **$1599.99**

**TS-B2000** **HF/VHF/UHF All Mode Transceiver** Same as the TS-2000 with high-tech "silver box" look. Includes PC control software..... **$1449.99**

**TS-2000X** **HF/VHF/UHF All Mode PC Controlled Transceiver** – TS-2000 w/1.2 GHz .. **$2099.99**

*Available Accessories*

**ARCP2000** PC/radio control software (included with B2000 model), **DRU3A** Digital recording unit, **HS5** Deluxe headphones, **HS6** Lightweight headphones, **KPS15** 23A switching power supply, **MB430** Mobile mounting bracket, **MC43S** 8-pin hand mic, **MC57DM** Lit TTP mic, **MC60A** 8-pin amp desk mic, **MC90** 2-head DSP desk mic, **PG2Y** 13' DC cable, **PG2Z** DC cable, **PS53** Heavy-duty supply, **RC2000** Remote face plate mobile kit, **SP23** Speaker, **VS3** Voice synthesizer

**TS-570D(G)** **HF Transceiver** – Covers 160–10M with 500 kHz to 30 MHz receive. Variable output: 5-100W SSB/CW/FM and FSK (AM 25W); 100 memories with multiple functions; Large amber-colored backlit LCD display; 10-key direct entry; 46 easy to use menu functions; Multiple scanning functions; 16-bit AF-stage DSP VOX; XIT/RIT; IF shift; Noise blanker; All mode squelch; TX audio shaping; Built-in electronic keyer; Full and semi break-in CW; CW message memory; CW auto tune; 38 tone CTCSS encoder and 1750 Hz tone; TX audio shaping; Packet and FSK; PC control option; Two antenna connectors; Packet port; Built-in automatic antenna tuner; Requires 13.8V DC @ 20.5A.

Dim: 10.6"w x 3.7"h x 10.6"d; 15 lbs..... **$919.99**

**TS-570S(G)** **HF+6M Transceiver** – Same as the TS-570D(G), but covers 160–10M plus 6M. 50–54 MHz general coverage receiver ..... **$1079.99**

*Available Accessories*

**DRU3A** Digital recording unit, **HS5** Deluxe headphones, **HS6** Lightweight headphones, **KPS15** 23A switching power supply, **MB430** Mobile mounting bracket, **MC43S** 8-pin hand mic, **MC60A** 8-pin amp desk mic, **MC90** 2-head DSP desk mic, **PG2Y** 13' DC cable, **PG2Z** 6.5' heavy-duty DC cable, **PS53** Heavy-duty power supply, **SO2** TCXO unit, **SP23** Speaker, **SP50B** External mobile speaker, **VS3** Voice synthesizer, **YK88CN1** 270 Hz CW filter, **YK88C1** 500 Hz CW filter, **YK88SN1** 1.8 kHz SSB filter

**TS-480HX** **HF/6M All-Mode Transceiver** – Covers amateur bands 1.8 to 50 MHz, including 60M with continuous receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two PS-53s or equivalent), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise Reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Twin cooling fans; Full range of CW features; Auto tune; Memory name function; Multiple scan functions; Keypad frequency entry; CTCSS; Wide/ narrow deviation; 1750 Hz tone; Noise blanker; Crossband repeater (with TM-D700A); Auto power off and time-out timer; Back lit keys; Optional IF filters available; PSK31 compatible; Packet cluster tune (with TM-D700A); PC-based control. Dim: 7.06"w x 2.38"h x 10.19"d (main unit), 7.06"w x 2.94"h x 1.44"d (panel); 7.05 lbs. (main); 1.1 lbs. (panel) ..... **$1099.99**

**TS-480SAT** – 100W version of the HX. Includes built-in automatic antenna tuner..... **$999.99**

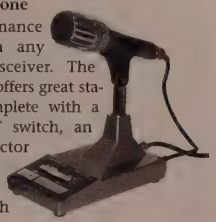
*Available Accessories*

**E30348905** 6' DC cable, **HS6** Lightweight headphones, **MB480** Carry bracket with handle, **MC43S** 8-pin hand mic, **MC47** Multi function 8-pin hand mic, **MC60A** 8-pin amp desk mic, **MJ88** Modular/8-pin adapter, **PG20** 22' DC cable, **PG4Z** 13' panel extension kit, **PS53** Heavy-duty power supply, **SO3** TCXO unit, **SP23** Speaker, **SP50B** External mobile speaker, **VGS1** Voice guide/storage unit, **YF107C** 500 Hz CW filter, **YF107CN** 270 Hz CW filter, **YF107SN** 1.8kHz SSB filter

# KENWOOD

## POPULAR ACCESSORIES

**MC-60A**
**Desktop Microphone**



Excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PTT switch, an impedance selector switch, built-in preamplifier and 6 ft. coiled cord with 8-pin plug. Requires two "AA" batteries..... **$149.99**

**MC-90** **High Performance DSP Desktop Microphone** – A high quality DSP-compatible desk mic. It is supplied with two interchangeable heads. One has a flat frequency response for good overall performance, while the other offers exceptional clarity and an output level characteristic that peaks at around 3 kHz, making it ideal for DX applications. There is also a 3-position (M, V1 or V2) switch on the base to tailor low-range cutoff frequency to suit the operator. The 250 ohm mic terminates to a standard 8 pin mic plug ..... **$249.99**

**HS-5** **Deluxe Headphones**

Specifically designed for communications. Natural sound and low pressure permits long hours of fatigue free listening. Replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Response: 150-4000Hz, 8Ω. Weight: 13 oz..... **$79.99**

**HS-6**
**Lightweight Headphones**
Response: 100-10,000 Hz
Impedance: 12.5 ohms; 6 ft. straight cord with 1/4 in. phone plug. Weighs just 4 oz. ..... **$59.99**

**LF-30A** **Low-Pass Filter** – Use with 160-10M transceivers to suppress TVI causing harmonics. Provides a 30 MHz cutoff and >90dB attenuation from 90–300 MHz. Power rating: 1000W SSB. Insertion loss: <0.5dB @ 30 MHz.
Dim: 9.6"w x 2"h x 1.5"d; 1.2 lbs..... **$64.99**

**SP-50B** **Communications Speaker** – Compact, for mobile operation. High quality 2.5 in. speaker; handles 2.5W. Response: 300-4000 Hz. Includes a mounting bracket.
Dim: 4.8"w x 3.2"h x 1.4"d; 10 oz. ..... **$55.99**

**SP-23** **Base Speaker** – This versatile 8 ohm speaker features a metal cabinet with flip-out tilt bar. It has a 3 inch (77 mm) speaker element rated to 1 watt with a 300 to 5000 Hz response. This speaker includes a 3 foot audio cable.
Dim: 4.8"w x 3.75"h x 9.25"d; 2.8 Lbs.... **$89.99**

**KES-5** **Mobile speaker**
Heavy duty, rugged. Meets Military Standards 810C, D, E, F for: low pressure, high temperature, low temperature, temperature shock, solar radiation, humidity, salt fog, dust, vibration and shock! 4Ω impedance speaker has a maximum input power of 40W making great for emergency and other vehicles requiring loud and clear audio. Includes a metal bracket to support the speaker from below or above, and attached cable. Install a connector of your choice.
Dim: 5.1"w x 5.1"h x 3"d; Wt: 1.8 lbs..... **$59.99**

MFJ ENTERPRISES, INC.

## ORP SINGLE BAND CW TRANSCEIVERS

Easy operation, sets up in seconds! Power: 5W CW; Great sensitivity – hot superhet receiver with super-quiet FET post amp stage in the IF filter; Excellent selectivity – tight CW bandwidth crystal ladder filter fights unwanted QRM and noise; Smooth and stable VFO (wide-spaced reduction drive VFO capacitor); True RIT; Recovery AGC; Built-in 3 in. speaker; Low power drain: 50mA on receive and 1.2A peak on transmit; Semi-QSK operation, just set the adjustable hold T/R switching to suit your normal sending speed or set for full QSK during contests, etc. Dim: 2.5"h x 6.5"w x 6"d; 2 lbs.

**Four different models:**

**9015** – 5W, 15M (21.000–21.200 MHz). **$179.99**
**9020** – 5W, 20M (14.000–14.075 MHz). **$179.99**
**9030** – 5W, 30M (10.100–10.150 MHz). **$179.99**
**9040** – 5W, 40M (7.000–7.150 MHz)..... **$179.99**

*Available Accessories:*
**1772** Portable 20M dipole, **1774** Portable 40M dipole, **27** Handle for CW station, **4110** portable AC power supply, **4114** Rechargeable power pack, **412** Plug-in Curtis keyer, **726** Plug-in audio filter, **971** 200W portable antenna tuner/meter

## LOW POWER, SINGLE BAND SSB TRANSCEIVERS

Easy operation, just turn on and tune in. Power: 20W PEP 9410X & 9420X, 12W PEP 9440X & 9475X; Constant Current™ syllabic speech processing for an added 4–6dB advantage to cut through noise, fading, and QRM; Handheld dynamic microphone that complements speech processing; Low current drain, only 3 amps from 12V supply or battery; Low noise preamp and active double balanced mixer front end; Sharp 2.3 kHz SSB crystal ladder filter reduces passband noise, fights QRM, and improves intelligibility; TVI protection with a built-in lowpass filter; Real S-meter; Reduction drive analog VFO allows scanning the band for signals quickly, then zeroing in smoothly; Amplifier key jack. Dim: 2.5h" x 6.5"w x 6"d; 2 lbs.

**Four different models:**

**9410X** – 10M SSB (28.3–28.6 MHz)..... **$249.99**
**9420X** – 20M SSB (14.150–14.35 MHz). **$239.99**
**9440X** – 40M SSB (7.150–7.3 MHz)..... **$239.99**
**9475X** – 75M SSB (3.75–4.00 MHz)..... **$239.99**

*Available Accessories:*
**1770A** 10M dipole for 9410X, **1772** Portable 20M dipole, **1774** Portable 40M dipole, **4110** Portable AC power supply, **4114** Rechargeable power pack, **415B** CW adapter (9420X & 9440X only), **416** CW adapter for 9410X, **971** 200W HF tuner

**WE HAVE OUR OWN SERVICE DEPARTMENT**

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AMATEUR RADIO'S VALUE LEADER™

## HF RADIOS

**DX-77T HF Transceiver** – Covers 160-10M with 500 kHz–30 MHz receive in SSB/CW/AM/FM modes. 100W (AM 40W); High/low power settings; 100 multi-function memories; Two VFOs; Direct digital synthesis; Easy split operation mode; Multi-function control; CW narrow filters; Noise blanker; 6–50 WPM electric keyer; Full, semi or auto break-in CW; All mode squelch; Quick offset; Two scan modes; RIT; Selectable AGC; RF gain control (RX); Dial lock; Auto antenna tuner interface; MARS/CAP capability. Dim: 3.6"h x 9.5"w x 9"d; 8.3 lbs..... **$699.99**

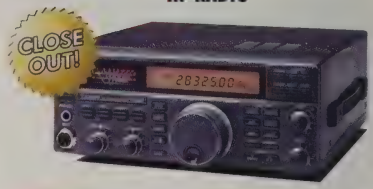
*Available Accessories*
**DM330MVT** 30 amp switching power supply with meter, **EDS5** 5' mic extension cable, **EDX2** 160-10M auto wire tuner, **EMS14** Desk top microphone, **PC25** DC cable

**DX-70TH Compact HF Transceiver** – Covers 160 to 6 meters with 150 kHz to 30 and 50 to 54 MHz receive in SSB, CW, AM, FM modes. 100W (AM 40W); Detachable face; 100 multi-function memories; Two VFOs; Easy split operation; Quick offset; Multi-function control; Narrow filter; Noise blanker; Speech processor; CTCSS for 10M & 6M repeaters; Full, semi or auto break-in CW; All mode squelch; Two scan modes; Separate HF and 6M antenna connections; RIT; TXIT; Selectable AGC; Dial lock; Automatic antenna tuner interface; MARS/CAP cap. Dim: 2.3"h x 7"w x 9"d; 8.3 lbs..... **$749.99**

*Available Accessories*
**DM330MVT** 30 amp switching power supply with meter, **EBC8** Front control head bracket, **EBC9** Extra mobile bracket, **EDS5** 5' mic extension cable, **EDS6** 15' remote cable, **EDX2** 160-10M auto wire tuner, **EMS14** Desk mic, **PC25** DC cable

YAESU

## HF RADIO




**FT-840 Compact High Performance HF Transceiver** – Blending high performance digital synthesis techniques, convenience and affordability from previously successful radios, the FT-840 adds a choice of two optional remote automatic antenna tuners and a wealth of convenient functions. Covers 160–10M with 50 kHz - 30 MHz general coverage receive. 100W output (25W AM); 100 memory channels; Direct Digital Synthesis; Low noise FET front end; Two direct digital synthesizers (DDSS) and magnetic rotary encoder for smooth tuning; Twin band-stacking VFOs; IF shift; Reverse CW; FM repeater with automatic 10 meter FM repeater offset; Selectable CTCSS; Requires 13.8V DC @ 20A. Dim: 9.2"w x 3.6"h x 9.5"d; 9.9 lbs.. **C/O $599.99**

*Available Accessories:*
**EDC20** DC cord, **FC10** External coax fed auto tuner, **FC800** Extra long wire auto tuner, **FIF232C** RS-232 interface, **FM747** FM unit, **FP1023** 23A switching power supply with fan, **FP1030A** 25A power supply with meters, **MD100A8X** Desk mic with tone control, **MD200A8X** Deluxe high fidelity desk mic, **MLS100** Mobile speaker, **MMB20** Mobile mount, **TCXO4** TCXO unit, **T9018320** DC cord, **YA007FG** FG whip with mount, **YF112A** 6 kHz AM filter, **YF112C** 500 Hz CW filter, **YH77STA** Stereo headphone

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# Go Field with HOT GEAR

**HF/VHF/UHF Portable Operation Just Got a Lot More Powerful!**

## FT-897D

HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)

TCXO | DSP | 60 m Band

**HF/VHF/UHF Multimode Mobile Transceiver, now Including Built-in DSP and 60-Meter Coverage!**

## FT-857D

HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)

DSP | 60 m Band

**REAL PERFORMANCE, REALLY PORTABLE**

## FT-817ND

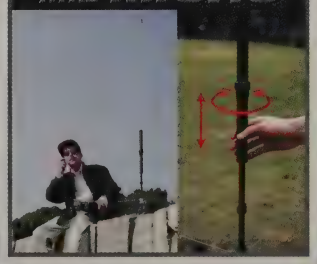
HF/50/144/430 MHz
5 W All Mode Transceiver (AM 1.5 W)

60 m Band

## ATAS-25

**Manually-Tuned Portable Antenna**

ATAS MICRO



## Automatic Matching for FT-897/857 Series Transceivers

WATERPROOF

**FC-40**
Automatic-Matching
200-Memory
Antenna Tuner

- Operational on 1.8 ~ 54 MHz when used with 66' (or longer) wire, or 7~ 54 MHz with standard 8.2' whip antenna (wire/whip antenna not supplied).
- Required Drive Power: 4 ~ 60 Watts. Maximum TX Power: 100 Watts.

## Mobile Auto-Resonating 7~430 MHz for FT-897/857 Series Transceivers

**ATAS-120A**
Active Tuning
Antenna System
(no separate tuner required)

VHF/UHF Base RadialKit
ATBK-100 for ATAS-120A.

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10900 Walker Street
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http://www.vxstdusa.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

# YAESU

## HF RADIOS

**FT-857D** **Ultra-compact, HF/VHF/UHF 100W All-Mode Mobile** – Blends leading-edge technologies of the FT-897 and MARK-V into the smallest full-power HF multi-mode. Now includes 60M! Unique ergonomics deliver unmatched ease of use with an ultra-compact design featuring a large, main tuning dial. Covers HF, 50, 144 and 430 MHz, with 0.1–56, 76–108, 118-164 and 430-470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories (10 groups); Enhanced performance with installed DSP board; Large, multi-color dot matrix display; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™; Optional remote-head operation and remote control microphone. Dim: 6.1"w x 2.0"h x 9.2"d; 4.6 lbs..... **Call/Web**

*Available Accessories:*

**BET YAETUNECONT** Better RF, **W4R ANTENNABOSS** W4RT interface, **W4R OBPSTD** W4RT Speech compressor, **W4R OPFCW** W4RT 500 Hz Collins, **W4R OPFSSB** W4RT 2.3 KHz Collins, **ADMS4B** Programming Software, **ATAS120** HF/6/2/430 antenna, **ATAS25** 40/20/15/10/6/2/430 antenna, **ATBK100** ATAS100 base kit, **CT39** Packet cable, **CT58** Band data cable, **CT62** Cat interface cable, **EDC20** DC cord, **FC30** External antenna tuner, **FC40** Auto tuner, **FP1023** 23A switching power supply, **FP1030A** 25A power supply with meters, **MD100A8X** Desk mic with tone control, **MD200A8X** Deluxe high fidelity desk microphone, **MH36E8J** TTP microphone, **MH59A8J** Remote control TTP microphone, **MLS100** Mobile speaker, **TCXO9** TCXO unit (0.5ppm), **T9023225** Extra DC cord, **YA007FG** FG whip w/mount, **YF122C** 500 Hz Collins CW filter, **YF122CN** 300 Hz Collins CW filter, **YF122S** 2.3 kHz Collins SSB filter, **YH77STA** Stereo headphones, **YSK857** Separation kit

**FT-897D** **HF/VHF/UHF Multi-Mode Portable/Base** – Self-contained, can operate without an external power supply. Using the optional 13.2V @ 4500mAh NiMH internal battery pack, it operates at 20W on all bands except 430 MHz. Two batteries may be installed simultaneously giving up to 8 hours of use. Power with external 13.8V DC is 100W (HF/50 MHz), 50W (144 MHz) and 20W (430 MHz), all adjustable down to 5 Watts; Includes 60 meters; SSB/CW/AM/FM and digital modes; Large-diameter main tuning dial; Built-in keyer, DSP and TCXO; Selectable tuning steps (2 kHz / 4 kHz); Easy receiver offset tuning; Scrolling front panel; Multi-function keys with instant "hot key"; RS-232 port; Aluminum, die-cast chassis.

Dim: 7.9"w x 3.14"h x 10.3"d; 8.6 lbs ..... **$899.99**

*Available Accessories:*

Uses the same accessories as the FT-857D above, but excluding: CT58, **FP1023**, **FP1030A**, **TCX09** & **YSK857**.

Additional accessories for FT-897D: **CD24** 4-hr charge adapter; **FNB78**, **FNB78** 4.5AH NIMH battery, **FP30** Internal PS, **MMB80** Mobile bracket, **PA26B** 110VAC charger; CD-24

**FT-817ND** **HF/VHF/UHF Backpack Transceiver** Self-contained and low power for portability. Covers 160– 10M, 60M, 50 MHz, 144 MHz, 430-450 MHz, plus Alaska emergency channel (5167.5 kHz) Receive: 100 kHz – 56 MHz, 76–154 MHz, 420–470 MHz, plus AM aircraft band. Power: 5W SSB/CW/FM (13.8V external DC), 1.5W AM, 2.5W SSB/CW/FM (9.6V NiCad pack) or 8 AA's (includes internal alkaline case), 0.7W AM, up to 5W SSB/CW/FM. Power programmable via menu. Dual VFOs; 200 alphanumeric memories (home channels and band-limit); SmartSearch™ memory loading. Modes: USB, LSB, CW, AM, FM, W-FM, AFSK, packet; RTTY, PSK31-U, PSK31-L, user-defined USB/LSB. Two-color, multi-function LCD meters ALC, power output, SWR, modulation. RF gain/squelch control; Noise blanker; Attenuator; Split capability, IF shift, and RIT; Electronic keyer; VOX; Auto repeater shift; CTCSS/DCS; Front/rear antenna jacks; PC control capability; 1400mAh NiMH battery and charger. Dim: 5.3"w x 1.5"h x 6.5"d; 2.6 lbs ..... **$599.99**

*Available Accessories:*

**W4R OBF817/NDDIY** W4RT CW & SSB Collins Filter, **W4R OBPSTD** W4RT Speech compressor, **W4R OPFCW** W4RT 500 Hz Collins, **W4R OPFSSB** W4RT 2.3 KHz Collins, **ADMS4A** Programming software, **ATAS25** 40/20/15/10/6/2/430 MHz antenna, **CSC83** Soft case, **CT39** Packet cable, **CT62** Cat interface cable, **EDC6** DC cord, **FNB72** 9.6V 1000mAh NiCad, **FNB85** 9.6V 1400mAh NiMH, **MH36E8J** TTP mic, **MLS100** Mobile speaker, **NC72B** Wall charger, **TCXO9** TCXO unit, **YA007FG** FG whip with mount, **YF122C** 500 Hz Collins CW filter, **YF122CN** 300 Hz Collins CW filter, **YF122S** 2.3 kHz Collins SSB filter

**FT-1000MP MK V** **200W HF All Mode Transceiver** – A blend of analog and digital technology, based on the concept of rigorous filtering in all stages of the receiver and transceiver. Interlocked Digital Band-width Tracking, matching the receiver passbands of the 8.2 MHz IF, 455 kHz IF and DSP systems; Variable RF Front-end Filter, providing a high-Q "Preselector" system; A 200W MOSFET final amplifier, conservatively rated with revolutionary heat sink design; 75W optional Class-A PA operation, providing SSB signal purity; Integrated ShuttleJog™ control, combines IBDT and VRF access buttons with the Shuttle-Jog™ frequency control; High-speed automatic antenna tuner; Separate switching power supply, provides 30V for MOSFET PA transistors, and 13.8V for other circuitry. Dim: 16.4"w x 5.4"h x 13.9"d; 31 lbs. (xcvr), 4.2"w x 5.4"h x 13.6"d; 13 lbs. (power supply).... **C/O** **$2269.99**

*Available Accessories:*

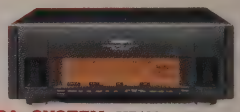
**DVS2** Voice recording module, **FH1** Remote control keypad, **FTV1000** 200W 6M transverter, **LL7** Phone patch unit for SP8, **MD100A8X** Desk mic with tone control, **MD200A8X** Deluxe high fidelity desk mic, **MH31B8** Extra hand mic, **SP8** External speaker with filters, **TCXO6** Deluxe TCXO unit, **YA007FG** FG whip with mount, **YF110CN** 250Hz CW filter/XFF, **YF110SN** 2kHz SSB filter/XFD, **YF114CN** 250Hz CW second IF main receive, **YF114SN** 2kHz SSB second IF main receive, **YF115C** 500 Hz CW/Collins Mechanical filter, **YH77STA** Stereo headphone

FTDX-9000 Contest

FTDX-9000D

**FTDX-9000 Series** – Covers HF and 6 meters; available in three configurations including 200 and 400W versions. Class-A operation at 100W (400W version or 75W with the 200W version). The 200W versions feature a built-in power supply. There is an included external power supply for the 400W version. Large, precision analog meters and a 6.5 in. TFT display (FTDX-9000D) gives unprecedented information and access to dozens of features and settings. An ultra-quiet 400 MHz high resolution direct digital synthesizer combines with the state-of-the-art receiver design to yield a typical two-tone dynamic range of >110 dB along with a 3rd-order intercept point in excess of +40 dBm. The fully-loaded FTDX-9000D includes three permeability-tuned, motor-driven "u" RF Tuning modules with Q>300, for ultra-sharp RF selectivity. IF DSP speech processing and microphone equalization and monitor for voice data and CW modes. There is also a low level transverter output port. A flash memory port and keyboard connector ensure that your station will evolve as the FTDX-9000 does.

**FTDX-9000D** 200W, TFT display..... **$11499.99**
**FTDX-9000MP** 400W, no TFT..... **$12049.99**
**FTDX-9000 Contest** 200W, no TFT. **$5699.99**



**QUADRA SYSTEM** **HF/50 MHz Solid-State Amplifier (VL-1000/VP-1000)** – Covers 160–15M + 6M, producing 1000W (6M, 500W) output with 100W of drive power. 4 twin MOSFET final PA modules; Two RF input and four RF output connectors; Built-in high-speed automatic antenna tuner; Dot matrix multi-function LCD; Panoramic SWR monitor shows before and after tuning SWR data; High SWR protection; Fully automatic band switching, no tune-up with the FT-1000, FT-1000MP, FT-1000MP MK V, MK V FIELD, and FT-920. Operation on 117VAC provides 500W output, 220V gives 1000W output. Matching 48 Volt/48Amp switching power supply included. Dim: (RF unit) 16.25"w x 5.9"h x 17.7"d; 43.6 lbs Dim: (Power supply) 16.25"w x 5.9"h x 14.9"d; 32.2 lbs..... **$3999.99**

**MD-200A8X** **High Fidelity Desktop Microphone** – Employs a studio-quality, 30-17,000 Hz dynamic element for high fidelity SSB. The exclusive Variable Side Pressure Control allows adjustment of overall frequency response for a natural, high-fidelity sound for everyday rag chewing, or to high-articulation with a moderate peak above 1500 Hz for DX or contesting..... **$399.99**

# The radio... FT DX 9000

The YAESU FT DX Series, born decades ago, soon grew through such best-sellers as the FT DX 401 to represent the very best in high-power DX-ready base stations, and the envy of those unfortunate few who didn't own one.
The return of the FT DX series brings back devastating output power, along with the most advanced features and specs, answering the calls for the ultimate DX base station.

Throughout the past 50 years, YAESU has poured know-how and passion into our leadership role in the development and perfection of HF SSB technology. This radio is born out of this tradition.

## FT DX 9000 Contest

**200 W Custom-Configurable Version**

Two Pairs of Meters, plus LCD Window
VRF Input Preselector Filter
Three Key Jacks, and Dual Headphone Jacks
50 V /12 A Internal Switching Regulator Power Supply

## FT DX 9000D 200 W Version

Large TFT, Data Management Unit and Flash Memory Slot Built In, Main/Sub Receiver VRF, plus Full Dual Receive Capability
Three µ-Tuning Modules for 160 - 20 M
50 V/12 A Internal Switching Regulator Power Supply

## FT DX 9000MP 400 W Special Order Version

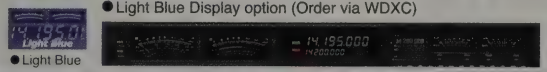
Two Pairs of Meters, plus LCD Window; Data Management Unit and Flash Memory Slot Built In
Main/Sub Receiver VRF, plus Full Dual Receive Capability
External 50 V/24 A Switching Regulator Power Supply and Speaker with Audio Filters

The radio... YAESU

*Choice of the World's top DX'ers*

**Customizing Optional Components** For all versions, you may select the display color at the time of ordering. Additional installation fee applies for installation of different color at later date.

● Light Blue Display option (Order via WDXC)



● Light Blue

● Umber Orange Display option (Order via WDXC)

● Umber Orange

**To request the FT DX 9000 Catalogue, please call (714) 827-7600, Ext. 2272.**

**For the latest Yaesu news, visit us on the Internet: http://www.vertexstandard.com**

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

Vertex Standard, US Headquarters,
10900 Walker Street, Cypress, CA 90630

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## SINGLE BAND MOBILES

**DR-135TMKII** 2M Mobile Transceiver – Covers 144–148 MHz transmit with 118–135.995 MHz (AM aircraft) & 136–173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with ± 2.5ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF microphone; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC; 13.8V DC @ 11A. Dim: 5.58"w x 1.57"h x 6.83"d; 2.3 lbs.... **$169.99**

**DR-135TPMKII** – Same as 135TMKII with addition of the TNC for 1200/9600bps packet and APRS operation ..... **$269.99**

**DR-235T** – Covers 222–224.995 MHz TX and 216–279.995 MHz RX; 25W/10/5W out.. **$249.99**

**DR-435TMKII** – Covers 430–450 MHz TX and 430-440 MHz RX; 35W/10/5W output.... **$269.99**

*Available Accessories:*
EDC37 DC cable, **EDC43** Cigarette lighter cable, **EJ41U** 1200/9600 TNC (T and TMKII's only), **EJ47U** Digital board (MKII's only), **ERW4** PC cable, **HK130** Hardware kit, **MB130** Mounting bracket, **PC15B** DC cable, **SW620** Windows programming software

**DR-M06TH** 6M FM Transceiver – Covers 50–54 MHz FM. Selectable 20/1W output; 100 memories + CALL channel; 50 tone CTCSS encoder; Programmable repeater offset for each memory channel; Time-out timer; DTMF hand microphone; 13.8VDC @ 3A. Dim: 5.5"w x 1.5"h x 4.5"d; 1.6 lbs **$259.99**

*Available Accessories:*
HK130 Hardware kit, **MB130** Mnt. bracket, **PC15B** DC cable

**LARGE STOCKS • We are in a position to take care of your needs out of our Regular Inventory.**

## DUAL BAND MOBILES

**DR-605TQ** 2M/70cm Dualbander – Covers 144–147.995 and 430–449.995 MHz transmit with 136–173.995 MHz and 420–470 MHz receive; Power: 50/10/5W (VHF), 35/10/5W (UHF); 50 memories, one CALL per band; Cross band repeat, Full duplex; Dual VHF/UHF only displays; Multi-scan functions; CTCSS encode, 3 European tone bursts; Twin volume controls; Packet compatible; Cable cloning; Internal duplexer; 13.8VDC @ 11.5A.
Dim: 5.58"w x 1.57"h x 6.8"d; 2.4lbs... C/O **$339.99**

*Available Accessories:*
**EDS8** EMS14–DR605 adapter, **EMS14** Desktop mic, **HK130** Hardware kit, **MB130** Mounting bracket, **PC15B** DC cable

## TWIN BAND MOBILES

Shown with optional EDS9 Separation kit

**DR-635T** Twin band Mobile Transceiver – Transmit coverage: 144-147.995 and 430-449.995 MHz; Receive coverage: 108-173.995 and 335-480 MHz includes VHF AM air band and FM broadcast (87.5-108 MHz). 200 alphanumeric memories. Power output: (VHF) 50/20/5W and (UHF) 35/20/5W. Dual band receive capability (V/V, U/U, V/U and U/V) with cross-band repeat. Large, easy-to-read three color LCD shows status icons and alphanumeric tags. CTCSS & DCS encode/decode plus 4 different tone bursts. Includes: auto power off, time out timer, tone burst, scan, channel lock-out, dimmer, VFO auto program, theft alarm function, narrow FM, power supply voltage display and remotable head. Rear mounted fan for cool operation during transmit. The front panel is remotable via the optional EDS-9 separation kit. Advanced Digital Mode (10F3) with speech compression is provided via the optional EJ-47U board. The supplied Electret Condenser DTMF Hand Microphone allows parameter setting and direct frequency entry. Includes DC cable, mobile mounting bracket with hardware, anti-theft (ACC on/off) function cable and anti-theft sticker..... **$369.99**

**DR-620T** Twin band Hand Mobile Transceiver – Looks the same, and has the same coverage and features of the newer DR-635T above. Does not have cross band repeat, three color display and power levels are 50/10/5W (VHF) and 35/10/5W (UHF) ... **$339.99**

*Available Accessories for DR635T & DR-620T:*
**EDS9** Separation kit, **EJ47U** Digital board, **EJ50U** TNC unit, **ERW4** PC cable, **HK130** Hardware kit, **MB130** Mounting bracket, **PC15B** DC cable, **SW620** Windows programming software

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ICOM

## SINGLE/DUAL BAND MOBILES

**IC-V8000** 2M FM Transceiver – Big 75W power output. Covers 144–148 transmit with 136-174 MHz receive. 207 alphanumeric memory channels including one call and six scan edge channels; Each memory channel stores a six character name, tone frequency, skip info, and more; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Large cooling fan on the back and large cooling fins; Selectable Green or Amber display; Includes HM-133V remote control microphone.
Dim: 5.9"w x 2"h x 5.9"d; 2.22 lbs..... **$199.99**

*Available Accessories:*
**CSV8000** Windows software, **OPC1132** 9.8' DC cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker, **UT108** DTMF decoder unit, **V8000MMB** Mobile bracket

ICOM **D-Star** Digital Voice & Data

**ID-800** 2M/440 Dual Bander Analog & Digital Features D-STAR Digital Voice Capability and supports 20 character short text messaging with an on screen display. Detachable control head; wideband receive; Three power settings: 55/15/5W (2 meters), 50/15/5W (440 MHz); Built-in CTCSS decode/encode with tone scan; PC compatible, 9600 BPS packet ready; 500 alphanumeric memories (6 characters), 16 DTMF memories
Includes: Built-in duplexer; Separation cable; Remote hand microphone; Mobile mounting bracket, power cord and spare fuses .... **$629.99**

*Available Accessories:*
**CSD800** Cloning Software, **MB17A** Quick Release Bracket, **OPC1132** 9.8' DC Cable, **OPC347** 23' DC Cable, **OPC440** 16.4' Microphone Extension Cable, **OPC441** 16.4' Speaker Extension Cable, **OPC478** PC RS232C Cable, **OPC478U** PC USB Cable, **OPC601R** 23' Separation Cable, **SP10** Slim-Line External Speaker

## SINGLE BAND MOBILE

ICOM

**IC-2200H** 2M FM Transceiver – A rugged design with a large Amber or Green LCD display with four levels of brightness, backlit keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Improved receive IMD helps provide protection from excessively strong signals such as pagers. Power levels: 65, 25, 10 or 5W; Choice of FM/Narrow mode; 207 alphanumeric memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCS encode/decode plus tone scan functions and "pocket beep"; Three-way Priority watch; 24 DTMF autodial memories; Squelch delay; GPS, NMEA compatible (GPS not supplied). Includes remote control microphone, DC power cable, mobile mounting bracket and microphone hanger. Dim: 5.5"w x 1.56"h x 5.25"d; 2.75 lbs.... **$179.99**

*Available Accessories:*

**CS2200H** Windows™ software, **MB17A** Quick release bracket, **OPC1132** 9.8' DC cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker, **UT108** DTMF decoder unit, **UT118** Digital board

## DUAL BAND MOBILES

**IC-2720H** 2M/70cm FM Transceiver – Provides VHF/VHF, UHF/UHF simultaneous receive along with VHF/UHF full duplex. Covers 144–148 & 430–450 MHz transmit with 118–550 MHz, 118–174, 375–550 & 810–999 MHz receive (cellular blocked), includes AM Aircraft band and Weather channel with Alert. Power: 50/35W (2M/70cm); 212 memories (10 banks), 2 call, 10 scan edges; Auto repeater offset; Backlit remote control microphone; Independent controls for each band; 12 DTMF memories; Selectable Amber/Green display; CTCSS/DTCS encode/decode, tone scan and pocket beep; Dynamic memory scan; 1200/9600 bps 6-pin terminal connector; PC programmable with optional software and cable. Dimensions: 5.5"w x 2"h x 1.1"d; 5.29 oz. (head unit), 5.5"w x 1.6"h x 7.4"d; 3.08 lbs. (main unit)..... **$399.99**

*Available Accessories:*

**CS2720** Windows/DOS cloning software, **MB17A** Quick release bracket, **MB65** Mounting base platform, **MB84** Remote controller bracket, **MB85** Combination bracket, **OPC1132** 9.8' DC cable, **OPC1156** 11.5' separation cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning software, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker

**IC-208H** 2M/440 Dualband Mobile – More power, wider receive, and lots of memory. Covers 144-148 and 430-450 transmit with 118-173, 230-549, 810-999 MHz (cell blocked) wide band receive Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alphanumeric memory channels; Improved Dynamic Memory Scan (10 banks), 2–100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCS tone squelch; Operate with control head attached or remote mounted with included 11.5 ft. separation cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Multicolor display lighting and backlit buttons; Remote control mic. included. Dim: 5.56"w x 1.56"h x 7.31"d; 2.65 lbs.. **$329.99**

*Available Accessories:*

**CS208** Windows cloning software, **MB17A** Quick release bracket, **MB58** Remote controller bracket, **MB65** Mounting base platform, **OPC1132** 9.8' DC cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **OPC601R** 23' separation kit, **SP10** Slim-line external speaker

KENWOOD

## SINGLE BAND FM MOBILE

**TM-271A** 2M FM Transceiver – Delivers powerful mobile performance with 60W output and other great features such as multiple scan functions and memory names. Covers 144-148 MHz transmit with 136–174 MHz receive. N.O.A.A. Weather band reception with alert tone; FM Wide/Narrow; 200 memories; MIL-STD compliant; High quality audio; Illuminated keys and a large LCD with adjustable Green backlighting; CTCSS, DCS and 1750 Hz tone burst; Auto repeater offset; FREE memory control software available @ kenwood.net..... **$169.99**

*Available Accessories:*

**MJ88** Modular/8-pin adapter, **PG2N** DC cable, **PG5D** PC interface cable, **SP50B** External mobile speaker

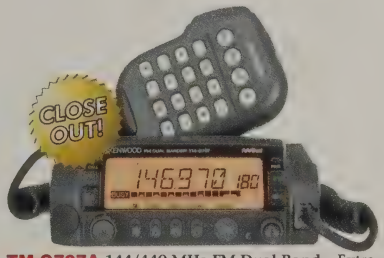
KENWOOD

## DUAL BAND VHF/UHF MOBILES

**TM-V708A** 144/440 MHz Dual Band Transceiver Kenwood's new advanced Dual-Bander provides World-Class communications. It's similar to the popular TM-D700A except that it does not have APRS firmware, TNC or computer hookups. 144-148/430-450 MHz – Dual Display; Power: (VHF) 50W & (UHF) 35W; RX: 136-175, 300-524 & 800-1300 MHz (cell blocked); 200 Alpha Memories; Auto repeater Offset; Automatic Simplex Checker; Visual Band Scope; DTSS Selective Call, PL Decode/Encode; Remote Head; DTMF Backlit Hand Microphone; Dim: 5.51"w x 1.58"h x 7.68"d; Body: 2.6 lbs. Panel: 0.4 lbs ..... **$399.99**

*Available Accessories:*

**MB201** Mobile bracket, **MJ88** Modular/8-pin adapter, **PG2N** DC cable, **PG4X** 13' extension cable kit, **PG5A** Packet data cable, **SP50B** Ext. mobile speaker, **VS3** Voice synthesizer




**TM-G707A** 144/440 MHz FM Dual Band – Extraordinarily user-friendly with extra-large detachable control panel. 144-148, 430-450 MHz transmit; 118-174, 410-524 MHz receive; 50/10/5W (VHF); 35/10/5W (UHF); Detachable control panel with high-visibility amber LCD display; 180 multi-function alphanumeric memories; Multi-scan functions; Priority scan function; Built-in CCTSS encoder and decoder; 1200/9600bps packet ready; Cross band repeater access; Selectable frequency step; S-meter squelch; Time-out timer; Dimmer control; Auto power-off; Multi-function backlit mic. with DTMF. Dim: 5.5"w x 1.5"h x 7.4"d; 2.7 lbs... C/O **$279.99**

*Available Accessories:*

**DFK3C** 9' cable kit, **DFK4C** 13' cable kit, **DFK7C** Deluxe 23' remote kit, **MB201** Mobile bracket, **MJ88** Modular/8-pin adapter, **PG2N** DC cable, **PG4S** PC interface cable, **PG5A** Packet data cable, **SP50B** External mobile speaker, **VS3** Voice synthesizer

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# KENWOOD

## DUAL BAND VHF/UHF MOBILE

**TM-D700A** 144/440 MHz Dual Band Data Communicator – Fully equipped to complement SSTV, GPS and APRS®. operations. Covers: 144-148, 430-450 MHz transmit with 118–148, 136–175, 300–524 & 800–1300 MHz (cellular blocked) wide band receive. Power: 50/10/5W (VHF); 35/10/5W (UHF); Detachable control panel with large backlit LCD and multi-function key display; Backlit microphone with alphanumeric input; Easy-to-use menu system; Advanced APRS-99 features; Built-in 1200/9600bps TNC (AX.25); DX cluster monitoring; Dual receive on same band for voice and data; 200 alphanumeric memories; 2 call channels; 10 programmable memory scan banks; Built-in CTCSS and 1750 tone burst; Digital Code Squelch (DCS); DTMF memory; Cross band and fixed band repeater operation; DCS code scan, tone, CTCSS scan; 10-channel program scan; Visual band scope; 13.8VDC @ 11.5A. Dim: 5.5"w x 2.4"h x 1.2"d; 0.4 lbs. (control); 5.5"w x 1.2"h x 7"d; 2.6 lbs. (main) ..... **$519.99**

*Available Accessories:*

**MB201** Mobile bracket, **MJ88** Modular/8-pin adapter, **PG2N** DC cable, **PG4X** 13' extension cable kit, **PG5A** Packet data cable, **SP50B** External mobile speaker, **VS3** Voice synthesizer

# YAESU

## SINGLE BAND MOBILES

**FT-1802M** 50W 2M FM transceiver – Extended receive 136–174 MHz (includes a 10 channel NOAA weather bank); 221 memories with eight banks and Alpha-numeric labeling; CTCSS and DCS Encode/Decode; Automatic Repeater Shift (ARS), Automatic Power-Off (APO) and Busy Channel Lock-out (BCLO); Morse Code trainer; Illuminated front panel keys; One-touch access to Yaesu's WIRES-II™ Internet Linking System; Password security prevents unauthorized use; Includes backlit DTMF microphone with four programmable keys and direct keyboard frequency entry.
Dim: 5.6"w x 1.6"h x 5.8"d; 2.6 lbs..... **$149.99**

*Available Accessories:*

**MLS100** Mobile speaker

**FT-2800M** 2M FM Transceiver – Cool, quiet, and ruggedly-built. Utilizes a Ultra-high Dissipation heat sink design, eliminating the need for a cooling fan. Covers 144-148 MHz transmit with 137–174 MHz receive. Includes Weather with Alert and 221 memories. Power: 65/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready.
Dim: 6.3"w x 2.0"h x 7.3"d; 4 lbs..... **$159.99**

*Available Accessories:*

**ADMS2J** Programming software, **MLS100** Mobile speaker, **S8002051** Mobile bracket, **S8101436** DC cable

# YAESU

## DUAL BAND MOBILES

**FT-7800R** 2M/440 MHz FM Mobile – Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater, or satellite operation on both bands, without the need for cross-band repeat capability. Covers 144-148 & 430-450 MHz transmit with 108–520 & 700–999 MHz (cell blocked) receive. Power: 50W (2M), 40W (430 MHz); N.O.A.A. weather alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; Illuminated keypad and microphone keys; WIRES™ capability.
Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs ..... **Call/Web**

*Available Accessories:*

**ADMS2K** Programming software, **CT39** Packet cable, **MLS100** Mobile speaker, **MMB60** Quick release mobile mount, **T9021715** DC cable, **YSK7800** Remote separation kit

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**FT-8800R** Dualband FM Mobile – Easy operation, outstanding receiver performance, and crossband repeat capability, the 8800R is the new standard of comparison. Covers 144-148 & 430-450 MHz transmit with 108–520 & 700-999 MHz (cell blocked) wide coverage receive (keep informed in the Public safety, Commercial, Aircraft, and Government ranges); Power: 50W on 144 MHz, 35W on 430 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band, and six "Hyper Memories" (complete sets of transceiver configurations); Independent 2-channel operation – dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; Cross-band repeat capability; One-touch band pattern; CTCSS/DCS (50/104 tone); User-program mic keys; Convenient remote-head mounting capability (optional kit required). Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs..... **$389.99**

**FT-8900R** Quad Band FM Mobile – National or World-wide FM communications from a vehicle. Covers 28-29.7, 50-54, 144-146, 430-440 MHz transmit with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) receive. Power: 50W (10/6/2M), 35W (430 MHz); FM satellite operation; Over 800 memories; DTMF auto-dial memory; One-touch band-pattern "Hyper-Memory," allows set up and storage of complete transceiver configuration settings. Saves button pushing! CTCSS and DCS encode/decode; Smart-Search™ auto memory loading; Cross band repeat; Independent, 2-channel, dual receive and full duplex (separate volume and squelch controls, as well as S-meters); Built-in duplexer; WIRES™ compatible; RF squelch; Auto repeater shift; ARTS™ capable; User-programmable microphone keys; Easy set up for FM satellite operation; Battery voltage meter; Time-out timer; Automatic power off; Large, easy-to-read LCD display; 1200/9600 bps packet; Thermal-sensored cooling fan; Remote head mounting capability.
Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs..... **$439.99**

*Available Accessories for FT-8800R & FT-8900R:*

**ADMS2H** Programming software (8900R), **ADMS2I** Programming software (8800R); **CT39** Packet cable, **MLS100** Mobile speaker, **MMB60** Quick release mobile mount, **MMB62** Remote control panel bracket, **T9021810** DC cable, **YSK8900** Remote separation kit

# A TOUGH RADIO FOR A TOUGH WORLD!

**The ruggedly-built new FT-1802M brings you Yaesu's legendary mechanical toughness, along with outstanding receiver performance and crisp, clean audio that will get your message through!**

- 50 Watts of RF Power Output.
- Extended Receive: 136 – 174 MHz.
- Keyboard entry of frequencies directly from microphone.
- Illuminated front panel keys for nighttime use.
- 221 Memory Channels with Alpha-numeric labeling.
- Eight Memory Banks for organizing Memory Channels.
- Dedicated 10-channel NOAA Weather Broadcast Channel Bank (U.S. version).
- Adjustable Mic Gain, and Wide/Narrow Deviation & Receiver Bandwidth.
- Built-in CTCSS and DCS Encoder/Decoder circuits.
- Four user-programmable "Soft" keys on microphone, for access to Menu items or front panel key functions.
- Automatic Repeater Shift (ARS), Automatic Power-Off (APO), and Busy Channel Lock-Out (BCLO) features.
- CW Trainer: Practice Morse Code between QSOs!
- Security Password to help prevent unauthorized use.
- One-touch access to Yaesu's renowned WiRES-II™ Internet Linking System.

Actual Size

Ultra Rugged 50 W VHF FM Transceiver

## FT-1802M

YAESU

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http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

## SINGLE BAND HANDHELDS

| Manufacturer | ALINCO | ALINCO | ALINCO | ALINCO | ALINCO | ALINCO | ICOM | ICOM | ICOM | ICOM | KENWOOD | YAESU | YAESU | YAESU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | DJ-196T | DJ-296T | DJ-496T | DJ-S11T | DJ-S40T | DJ-S45T | IC-T2H SPORT | IC-V82 | IC-U82 | IC-V8 | TH-K2AT | VX-150 | VX-170 | VX-177 |
| Band | 2M | 220MHz | 440MHz | 2M | 440MHz | 440MHz | 2M | 2M | 440MHz | 2M | 2M | 2M | 2M | 440MHz |
| RX Range (MHz) | 135-174 | 222-225 | 430-450 | 144-148 | 425-450 | 420-474 | 136-174 | 136-174 | 400-479 | 136-174 | 136-174 | 140-174 | 137-174 | 420-470 |
| Aircraft RX | No | No | No | No | No | No | No | No | No | No | No | No | No | No |
| Power Output | 5W | 5W | 5W | 340mW | 500mW | 1W | 6W | 7W | 5W | 5.5W | 5W | 5W | 5W | 5W |
| Touch-Tone Pad | Yes | Yes | Yes | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Tone Encode | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Tone Decode | Yes(1) | Yes(1) | Yes(1) | No | Yes | Yes | Yes | Yes | Yes | Yes(1) | Yes(1) | Yes | Yes/DCS | Yes/DCS |
| Memories | 40 | 40 | 40 | 21 | 100 | 100 | 40 | 200 | 200 | 100 | 100 | 200 | 200 | 1000 |
| Alphanumeric | Yes | Yes | Yes | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Battery Type | Ni-Cad | Ni-Cad | Ni-Cad | AA | AA | Li-Ion | AA | Ni-Cad | Ni-Cad | Ni-Cad | Ni-MH | Ni-Cad | Ni-MH | Ni-MH |
| PC Programmable | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| Antenna Conn | BNC | BNC | BNC | Fixed(2) | SMA | SMA | BNC | BNC | BNC | BNC | SMA | SMA | SMA | SMA |
| Height (in.) | 4.9 | 4.9 | 4.9 | 3.9 | 4.0 | 3.86 | 4.5 | 5.5 | 5.5 | 5.2 | 4.4 | 4.3 | 2.3 | 2.3 |
| Width (in.) | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.24 | 2.3 | 2.1 | 2.1 | 2.1 | 2.4 | 2.3 | 4.7 | 4.7 |
| Depth (in.) | 1.6 | 1.6 | 1.6 | 1.1 | 1.2 | 1.17 | 1.3 | 1.4 | 1.4 | 1.4 | 1.1 | 1 | 1.2 | 1.2 |
| Weight (oz.) | 13.2 | 13.2 | 13.2 | 2.72 | 3.5 | 5.7 | 14.8 | 13.8 | 13.8 | 12.3 | 12.5 | 11.5 | 13.8 | 13.8 |

* Only alkaline case included
(1) Standard CTCSS plus DCS
(2) Folding ant. attached
(3) Dual operation between Voice & Data
(4) 1.5W on 2M & 1W on 70cm
**All radios are cell blocked**

**Links to Manufacturer's Websites at aesham.com**

## MULTI BAND HANDHELDS

| Manufacturer | ALINCO | ALINCO | ALINCO | ICOM | ICOM | ICOM | ICOM | KENWOOD | KENWOOD | YAESU | YAESU | YAESU | YAESU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | DJ-596TMKII | DJ-C7T | DJ-V5TH | IC-T7H | IC-T90A | IC-W32A | IC-P7A | TH-D7A(G) | TH-F6A | FT-60R | VX-2R | VX-6R | VX-7R<br>VX-7RB |
| TX Range (MHz) | 144-148<br>420-450 | 144-148<br>420-450 | 144-148<br>438-450 | 144-148<br>440-450 | 50-54<br>144-148<br>430-450 | 144-148<br>440-450 | 144-148<br>430-450 | 144-148<br>430-450 | 144-148<br>222-225<br>430-450 | 144-148<br>430-450 | 144-148<br>430-450 | 144-148<br>220-225<br>430-450 | 50-54, 144-148<br>222-225<br>430-450 |
| RX Range (MHz) | 136-174<br>400-512 | 88.1-174<br>380-512 | 76-999 | 118-174<br>400-470 | .495-999.99 | 118-174<br>400-470 | .495-999.99 | 118-174<br>400-480 | 0.1-1300 | 108-520<br>700-999 | .5-1000 | 0.5-999 | .5-16<br>48-730<br>800-900 |
| Single/Multi RX | Single | Single | Single | Single | Single | Dual | Single | Single(3) | Dual | Single | Single | Single | Dual |
| Aircraft RX | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Power Output | 5W | 300mW | 5W | 6W | 5W | 5W | 1.5W(4) | 5W | 5W | 5W | 1.5W(4) | 5W (1.5W/222) | 5W (300mW/222) |
| Memories | 100 | 200 | 200 | 70 | 555 | 200 | 1000 | 200 | 435 | 1000+ | 1300+ | 900 | 220 |
| CTCSS | Enc/Dec/DCS | Enc/Dec | Enc/Dec | Enc/Dec | Enc/Dec/DCS | Enc/Dec | Enc/Dec | Enc/Dec | Enc/Dec/DCS | Enc/Dec/DCS | Enc/Dec/DCS | Enc/Dec/DCS | Enc/Dec/DCS |
| Touch-Tone Pad | Yes | No | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No | Yes | Yes |
| Alphanumeric | Yes | No | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PC Programmable | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | TBA | Yes |
| Battery Type | Ni-Cad | Li-ion | Ni-Cad | Ni-Cad | Li-ion | Ni-Cad | Li-ion | Ni-Cad | Li-ion | Ni-MH | Li-ion | Li-ion | Li-ion |
| Ant.Connector | BNC | SMA | SMA | BNC | SMA | BNC | SMA | SMA | SMA | SMA | SMA | SMA | SMA |
| Height (in.) | 4.9 | 3.8 | 3.8 | 4.8 | 3.4 | 5.5 | 3.1 | 4.7 | 3.4 | 4.3 | 3.2 | 2.3 | 3.5 |
| Width (in.) | 2.2 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.8 | 2.1 | 2.3 | 2.3 | 1.9 | 3.5 | 2.3 |
| Depth (in.) | 1.6 | 0.6 | 1.3 | 1.1 | 1.2 | 1.4 | 1.1 | 1.7 | 1.2 | 1.2 | 0.9 | 1.1 | 1 |
| Weigh (oz.) | 13.2 | 3.6 | 12 | 14.3 | 8.5 | 16 | 5.6 | 13.4 | 8.8 | 13 | 4.7 | 9 | 19.6 |

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| Manufacturer | ALINCO | ALINCO | ICOM | ICOM | ICOM | ICOM | ICOM | ICOM | ICOM | KENWOOD | KENWOOD | KENWOOD | KENWOOD | KENWOOD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | **DX-70TH*** | **DX-77T** | **IC-703PLUS*** | **IC-706MkIIG*** | **IC-7000*** | **IC-718** | **IC-746PRO** | **IC-756PROIII** | **IC-7800** | **TS-2000, TS-B2000 TS-2000X** | **TS-480HX*** | **TS-480SAT*** | **TS-570D(G)** | **TS-570S(G)** |
| **Bands** | HF, 6M | HF | HF, 6M | HF, 6M 2M, 70CM | HF, 6M 2M, 70CM | HF | HF, 6M, 2M | HF, 6M | HF, 6M | HF, 6M, 2M 70CM, 1.2GHz* | HF, 6M 60M | HF, 6M 60M | HF | HF, 6M |
| **Rx Range (MHz)** | .15-30, 50-54 | .5-30 | .03-30 30-60 | .03-200 400-470 | .03-199 400-470 | .03-30 | .03-200 | .03-60 | .03-60 | .03-60, 142-152 420-450 1240-1300* | .5-60 | .5-60 | .5-30 | .5-60 |
| **Power (SSB/CW/FM)** | 100W | 10-100W | 10/5W | 5-100 HF/6M 5-50 2M 2-20 70CM | 2-100 HF/6M 2-50 2M 2-35 70CM | 5-100W(7) | 5-100 | 5-100W | 5-200W | 100W HF/6/2M 50W 70CM 10W 1.2GHz* | 200W HF 200W 6M | 100W HF 100W 6M | 5-100W | 5-100W |
| **Power (AM)** | 40W | 4-40W | 2/4W | 2-40W HF/6M 2-20W 2M 2-8W 70CM | 1-40W HF/6M 2-20W 2M 2-14W 70CM | 2-40W | 5-40W | 5-40W | 5-50W | 25W HF/6/2M 12.5W 70CM 2.5W 1.2GHz* | 5-50W | 5-25W | 5-25W | 5-25W |
| **DSP** | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Tuner** | No | No | Yes | Optional | Optional | Optional | Internal | Internal | Internal | Yes | No | Yes | Yes | Yes |
| **Keyer** | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Speech Readout** | No | No | Optional | Optional | Yes | Optional | Optional | Optional | Yes | Optional | Optional | Optional | Optional | Optional |
| **VOX** | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Power Requirements** | 12VDC 20A | 12VDC 20A | 9-15.8VDC 2/3A | 12VDC 20A | 12VDC 22A | 12VDC 20A | 12VDC 20A | 12VDC 23A | (Built-in) | 12VDC 20.5A | 12VDC 41A | 12VDC 20.5A | 12VDC 20.5A | 12VDC 20.5A |
| **Antenna ports** | 2(1) | 1 | 1 | 2(3) | 2(3) | 1 | 3(4) | 2 | 4 | 5 | 2 | 2 | 2 | 2 |
| **Computer Port** | No | No | Optional | Optional | Optional | Optional | Optional | Optional | Yes | Yes | Yes | Yes | RS-232 | RS-232 |
| **Height (in.)** | 2.3 | 3.7 | 2.3 | 2.3 | 2.59 | 3.75 | 4.7 | 4.3 | 5.9 | 3.75 | 2.4 | 2.4 | 3.8 | 3.8 |
| **Width (in.)** | 7 | 9.8 | 6.56 | 6.6 | 6.56 | 9.44 | 11.3 | 18.3 | 16.6 | 10.625 | 7 | 7 | 10.6 | 10.6 |
| **Depth (in.)** | 9 | 9 | 7.87 | 7.9 | 7.09 | 9.40 | 12.5 | 11.2 | 17.1 | 12.5 | 10.2 | 10.2 | 10.7 | 10.7 |
| **Weight (lbs.)** | 6 | 8.4 | 4.4 | 5.5 | 5.1 | 8.4 | 19.5 | 21 | 55 | 17.19 | 7 | 7 | 15 | 15 |

| Manufacturer | MFJ | MFJ | MFJ | MFJ | MFJ | MFJ | MFJ | MFJ | YAESU | YAESU | YAESU | YAESU | YAESU | YAESU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | **9015** | **9020** | **9030** | **9040** | **9410X** | **9420X** | **9440X** | **9475X** | **FT-817ND** | **FT-840** | **FT-857D*** | **FT-897D** | **FT-1000MP MKV** | **FTDX-9000 Series** |
| **Bands** | 15M | 20M | 30M | 40M | 10M | 20M | 40M | 75M | HF, 6M 2M, 70CM | HF | HF, 6M 2M, 70CM | HF, 6M 2M, 70CM | HF 6M(10) | See pages 44 & 45 or go to Yaesu's Web Site: http://www.vertexstandard.com |
| **Rx Range (MHz)** | 21-21.2 | 14-14.075 | 10.1-10.15 | 7-7.15 | 28.3-28.6 | 14.15-14.35 | 7.15-7.3 | 3.75-4 | .1-56 76-154 420-470 | .1-56, 76-108 | .1-56, 76-108 118-164 420-470 | .1-30 118-164 420-470 | .1-30 50-54(10) | |
| **Power (SSB/CW/FM)** | 5W CW | 5W CW | 5W CW | 5W CW | 20W SSB PEP | 20W SSB PEP | 12W SSB PEP | 12W SSB PEP | 5W SSB/CW/FM | 100W(2) | 100W HF 50W 2M/70CM 20W 70CM | 100W HF/6M(8) 50W 2M 20W 70CM(8) | 200W | |
| **Power (AM)** | No | No | No | No | No | No | No | No | 1.5W | 25W | 25W HF 12.5W 2M 5W 70CM | 25W HF/6M(9) 12.5W 2M(9) 5W 70CM(9) | 50W | |
| **DSP** | No | No | No | No | No | No | No | No | No | No | Optional | Yes | Yes | |
| **Tuner** | No | No | No | No | No | No | No | No | No | No | No | No | Yes | |
| **Keyer** | No | No | No | No | No | No | No | No | Yes | No | Yes | Yes | Yes | |
| **Speech Readout** | No | No | No | No | No | No | No | No | No | No | No | No | No | |
| **VOX** | No | No | No | No | No | No | No | No | Yes | No | Yes | Yes | Yes | |
| **Power Requirements** | 12VDC 1.2A | 12VDC 1.2A | 12VDC 1.2A | 12VDC 1.2A | 12VDC 1.2A | 12VDC 1.2A | 12VDC 1.2A | 12VDC 1.2A | 12VDC 2A | 12VDC 22A | 12VDC 22A | 12VDC 22A | FP29 30V (supplied) | |
| **Antenna ports** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2(3) | 2(3) | 2 | |
| **Computer Port** | No | No | No | No | No | No | No | No | Yes | Optional | Optional | RS-232 | Yes | |
| **Height (in.)** | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 1.5 | 3.7 | 2 | 3.14 | 5.4 | |
| **Width (in.)** | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 5.3 | 9.4 | 6.1 | 7.9 | 16.4 | |
| **Depth (in.)** | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6.5 | 9.6 | 9.2 | 10.3 | 13.9 | |
| **Weight (lbs.)** | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.6 | 12 | 4.6 | 8.6 | 31 | |

* Remotable control head
* Optional module required for TS-2000 and B versions
(1) One port for HF; one port for 6M
(2) Optional board required for FM
(3) HF/6M one port, 2M/440MHz second port
(4) Two ports for HF, one dedicated for 2M
(5) Port per band. HF/6M can be combined
(7) No FM
(8) On internal batteries: 20W (10W on 70cm)
(9) On internal batteries: 5W (2.5W on 70cm)
(10) 6M operation requires optional FTV1000

**Links to Manufacturer's Websites at aesham.com**

## SINGLE BAND MOBILE TRANSCEIVERS

| Manufacturer | ALINCO | ALINCO | ALINCO | ALINCO | ICOM | ICOM | ICOM | KENWOOD | MFJ | MFJ | MFJ | MFJ | YAESU | YAESU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | **DR-M06TH** | **DR-135TMKII, TPMKII** | **DR-235T** | **DR-435TMKII** | **IC-2200H** | **IC-V8000** | **ID-1** | **TM-271A** | **8621** | **8621X2** | **9402X** | **9406X** | **FT-2800M** | **FT-1802M** |
| **TX Range (MHz)** | 50-54 | 144-148 | 222-224.995 | 430-449.995 | 144-148 | 144-148 | 1240-1300 | 144-148 | 145.01 | 144.39 | 144-144.3 | 50-50.3 | 144-148 | 144-148 |
| **RX Range (MHz)** | 40-60[2] | 118-174 | 216-279.995 | 350-511.995 | 118-174 | 136-174 | 1240-1300 | 136-174 | 145.01 | 144.39 | 144-144.3 | 50-50.3 | 137-174 | 136-174 |
| **Aircraft RX** | N/A | Yes | No | No | Yes | No | No | No | No | No | No | No | No | No |
| **Power Output** | 20/1W | 50/10/5W | 25/10/5W | 35/10/5W | 65/25/10W | 75/25/10/5W | 10/1W | 60/25W | 5W | 5W | 7W SSB | 10W SSB | 65/25/10/5W | 50/25/10/5W |
| **TTP Microphone** | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | No | No | No | No | Yes | Yes |
| **Tone Encode** | Yes | Yes | Yes | Yes | Yes | Yes/DCS | Yes | Yes | No | No | No | No | Yes | Yes |
| **Tone Decode** | EJ-20U | Yes | Yes | Yes | Yes | Yes/DCS | Yes/DTCS | Yes/DCS | No | No | No | No | Yes/DCS | Yes/DCS |
| **Memories** | 100 | 100 | 100 | 100 | 207 | 207 | 100 | 200 | 0 | 0 | 0 | 0 | 221 | 221 |
| **Alphanumeric** | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | Yes | Yes |
| **PC Programmable** | N/A | No | No | No | Yes | Yes | Yes | Yes | No | No | No | No | No | No |
| **13.8V DC@** | 5A | 11A | 8A | 10A | 15A | 15A | 7A | 13A | >1A | >1A | 2A | 3A | 10A | 10A |
| **Antenna Conn** | SO-239 | SO-239 | SO-239 | SO-239 | SO-239 | SO-239 | N | SO-239 | SO-239 | SO-239 | SO-239 | SO-239 | SO-239 | SO-239 |
| **Size (h/w/d, in.)** | 1.6/5.5/4.5 | 1.6/5.6/6.9 | 1.6/5.6/6.9 | 1.6/5.6/6.9 | 1.6/5.5/7.1 | 2.0/5.9/5.9 | 6/2/2 | 1.7/6.3/5.4 | 1.5/5/5 | 1.5/5/5 | 2.5/6.5/6 | 2.5/6.5/6 | 2/6.3/7.3 | 1.6/5.6/5.8 |
| **Weight (lbs.)** | 1.5 | 2.3 | 2.3 | 2.3 | 2.75 | 2.22 | 2.6 | 2.6 | 0.8 | 0.8 | 2 | 2 | 2 | 2.6 |

(1) Requires keyboard modification
(2) There are gaps in non-voice or data portions in certain bands
(3) 2 Piece configuration only
(4) Control head separate from body
(5) All models are Cellular Blocked
(6) AM aircraft receive mode
(7) Does not include projections (knobs, antenna jacks, etc.)
(8) Manufactuer only guarantees specs within the ham bands
(9) FT-8900R includes 10M/6M as well
**All radios are cellular blocked**

**Links to Manufacturer's Websites at aesham.com**

## MULTI BAND MOBILE TRANSCEIVERS

| Manufacturer | ALINCO | ALINCO | ALINCO | ICOM | ICOM | ICOM | KENWOOD | KENWOOD | KENWOOD | YAESU | YAESU | YAESU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | **DR-605TQ** | **DR-620T** | **DR-635T** | **ID-800** | **IC-208H** | **IC-2720H** | **TM-D700A[4]** | **TM-G707A** | **TM-V708A[4]** | **FT-7800R** | **FT-8800R** | **FT-8900R** |
| **TX Range[5,8]** | 144-148<br>430-450 | 144-148<br>430-450 | 144-148<br>430-450 | 144-148<br>420-450 | 144-148<br>440-450 | 144-148<br>430-450 | 144-148<br>438-450 | 144-148<br>438-450 | 144-148<br>438-450 | 144-148<br>430-450 | 144-148<br>430-450 | 28-29.7,50-54<br>144-148<br>430-450 |
| **RX Range (MHz)[5,8]** | 136-174<br>420-470 | 87.5-108 (WFM)<br>108-174<br>335-480 | 108-174[6]<br>335-480<br>87.5-108 | 118-173<br>230-549<br>810-999 | 118-174[6]<br>230-550<br>810-999 | 118-550 (left)<br>118-174, 375-550<br>810-999 (right) | 118-470 (A band)[2]<br>136-175, 300-524<br>800-1300 (B band)[2] | 118-174<br>410-524[6] | 118-470 (A band)[2]<br>136-175, 300-524<br>800-1300 (B band)[2] | 108-520<br>700-999 | 108-520<br>700-999 | 28-29.7,50-54<br>108-180<br>320-480, 700-985 |
| **Single or Dual RX** | Dual | Dual | Dual | Single | Single | Dual | Dual | Single | Dual | Single | Dual | Dual |
| **Power (2M)[9]**<br>**Power (440MHz)** | 50/5W<br>35/5W | 50/35/10/5W<br>35/10/5W | 50/25/5<br>35/20/5 | 55/15/5<br>50/15/5 | 55/15/5W<br>50/15/5W | 50/20/5W<br>39/20/5W | 50/10/5W<br>35/10/5W | 50/10/5W<br>35/10/5W | 50/10/5W<br>35/10/5W | 50/20/10/5W<br>40/20/10/5W | 50/20/10/5W<br>35/20/10/5W | 50W[9]<br>35W |
| **Memories** | 100 | 200 | 200 | 500 | 500 | 212 | 200 | 180 | 200 | 1000+ | 1000+ | 800 |
| **Tone Encode** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Tone Decode** | Yes | DCS | Yes | Yes/DTCS | Yes | DCS | Yes | Yes | Yes | DCS | DCS | DCS |
| **Duplexer** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Cross-Band Rpt.** | Yes | No | Yes | No | No | Yes | Yes | No | Yes | No | Yes | Yes |
| **Alphanumeric** | No | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| **PC Programmable** | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes |
| **9600b Compatible** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes |
| **Separable** | No | Yes | Yes | Yes | Yes | Yes[3] | Yes | Yes[3] | Yes[3] | Yes | Yes | Yes |
| **Height (in.) (Head)**<br>**Width (in.)**<br>**Depth (in)[7]** | 1.6<br>5.5<br>6.9 | 5.51<br>1.57<br>7.28 | 5.5<br>1.6<br>7.3 | Yes<br>9.5<br>1.5 | 1.6<br>5.6<br>7.3 | 1.6 (2)<br>5.5 (5.5)<br>7.4 (1.1) | 1.6 (2.4)<br>5.5 (5.5)<br>7.7 (1.3) | 1.6<br>5.5<br>7.4 | 1.6 (2.4)<br>5.5 (5.5)<br>7.7 (1.3) | 1.6<br>5.5<br>6.6 | 1.6<br>5.5<br>6.6 | 1.6<br>5.5<br>6.6 |
| **Weight (lbs)** | 2.4 | 2.2 | 2.2 | 7.31 | 2.7 | 3 (5.3) | 2.6 (.4) | 2.7 | 2.6 (0.4) | 2.2 | 2.2 | 2.2 |

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# MFJ SWR Analyzers

## ... tune for Serious Antenna Performance!

**You've spent a lot of time and money on your antenna system, so make sure it's giving you top performance by using a MFJ SWR Analyzer. The MFJ-259B and 269 are complete Ham radio test stations, including: a Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance and Inductance Meter & more... All in One!**

You will no longer have to drag your rig (RF source) out into the yard. No more running in and out of the house or up and down the tower to make those seemingly endless readings and adjustments. MFJ analyzers are self-contained and fully portable units, with built-in battery power and RF source so you can take it right to the antenna. Take one reading to get a complete picture of your antenna, and make tuning adjustments on the spot.

Operation is simple, just connect the feed line, set the bandswitch and tune the dial. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters.

When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.

Read SWR, return loss and reflection coefficient at any frequency simultaneously, or inductance and capacitance at RF frequencies at a glance.

The 259B and 269 operate on 110V with the 1312D adapter ($14.99) or on 10 AA Alkaline or Ni-Cad/Ni-MH rechargeable internal batteries, not included. For rechargables, there is a built-in charger circuit that requires external 12VDC or MFJ-1312D. All metal cabinet. Dim: 6-3/4"h x 4"w x 2"d. The 259B has an SO-239 connector, the 269 has a type-N and is supplied with a type-N to S0-239 adapter.

**MFJ-259B SWR Analyzer** – Covers 1.8-170 MHz ..... **$239.99**

**MFJ-269 SWR Analyzer** – Looks nearly identical to, and has all the features of the 259B plus it covers 1.8-170 and 415-470 MHz. Built-in CoaxCalculator™ calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor. Read Complex Impedance as series equivalent resistance and reactance (Rs+jXs) or as magnitude (Z) and phase (degrees). Also reads parallel equivalent resistance and reactance (Rp+jXp). Measure SWR and loss of coax with any characteristic impedance from 10 to over 600, including 50, 51, 52, 53, 73, 75, 93, 95, 300, 450 ohms. On the 415 to 470 MHz Range you can read SWR, return loss, reflection coefficient simultaneously, and cable loss in dB and match efficiency. Has LCD logarithmic SWR bargraph and SWR meter for quick tuning ..... **$319.99**

## 259B/269 Accessories

**29C Carrying Case** – Tote your 259B anywhere with this custom carrying case. Wear it around your waist, over your shoulder, or clip it onto the tower while you work. Has back pocket for carrying dip coils and coax adapters. Special foam filled fabric cushions protects from wear ..... **$24.99**

**39C Carrying Case** – Fits the 269 ..... **$24.99**

**66 Dip Meter Adapter** – For grid dip operation. Set of two plug-in coils, covers 1.8-170 MHz .... **$19.99**

**98 Accessory Pack** – Includes 39C case, 66 dip adapter and 1312D AC adapter ..... **$54.99**

**99 Accessory Pack** – Includes 29C case, 66 dip coils and 1312D AC adapter ..... **$54.99**

**99B Accessory Pack** – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coils and AC adapter . **$77.99**

**99C Accessory Pack** – Includes 10 "AA" NiMH batteries and 1312D AC adapter ..... **$34.99**

**731 Tunable Measurement Filter** – Use with 259B or 269 for measurements in the 1.8-30 MHz range while in the presence of strong RF fields from nearby broadcast stations or other RF sources... **$89.99**

## TIMEWAVE TECHNOLOGY INC. TZ-900

## AntennaSmith™

### Antenna Impedance Analyzer

Features:
- Full Color TFT LCD Graphic Display
- Covers 0.2 to 55 MHz
- SWR • Impedance (Z) • Reactance (r+jx)
- Reflection coefficient (ρ,ϑ) • Smith Chart

**Day/Night Always-Visible Display**
The transreflective TFT LCD color display is brilliantly visible in direct sunlight.

**Full Graphics - Rapid update**
Data graph updates every two seconds. Quickly set the start, stop or center frequencies to see the data as you want it. A tap on a button gives you a different parameter. Tap another button to store a graph to print later or to display as a reference while you optimize your antenna system. Instantly see the effect of a change!

**Adjustable Frequency Cursor/Generator**
Quickly tune the cursor to check your antenna system at the desired frequency while looking at the big picture on a graph. The Direct Digital Synthesizer makes a great RF signal generator in the Synthesizer mode. Easily calibrate to WWV with 1 Hz frequency resolution.

**Rugged and Portable**
Extruded aluminum case, (4) AA NiMH batteries for hours of field operation. A 12 VDC power supply/charger included.

**TZ-900S** comes with SO-239 connector ..... Special Order **$1399.99**
**TZ-900N** comes with type-N connector ..... Special Order **$1399.99**

## Coaxial Dynamics RF Directional Wattmeters

Elements also work in BIRD meters!

**81000-A RF Directional Wattmeter** – Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1–10,000 watts full scale, and from 0.45 to 2300 MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order) ..... **$275.99**

**83000-A RF Peak Reading Wattmeter** – Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery is required and supplied for peak reading mode ..... **$393.99**

*See Price Guide for list of Plug-in Elements*

CN-801HP/V CN-101/103M/103N

## Cross Needle SWR/Power Meters

**CN-101** – Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward/Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W minimum; 50Ω, SO-239 connectors. Dim: 6"w x 3"h x 3.9"d; 1.5 lbs ..... **$99.99**

**CN-103M** – Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP) ..... **$99.99**

**CN-103N** – CN-103M with N connectors **$109.99**

### Professional Series

The CN-801 series of Cross Needle meters feature the largest meter face, and the most accurate in the Daiwa line. Calibrated in .5W increments with 5W SWR detection sensitivity and lighted. The 801HP reads true PEP. Dim: 6"w x 4"h x 4.5"d; 2.2 lbs

**CN-801HP** – 1.8-200 MHz, 20/200/2kW **$159.99**

**CN-801V** – 140-525 MHz, 20/200W ..... **$154.99**

**CN-801S** – 900-2500 MHz, 2/20W ..... **$239.99**

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## DIAMOND ANTENNA

### SWR/Power Meters

*(left)* Five models measure power and SWR with 5–10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except SX-1000 (type-N). Dim: 6"w x 2.5"h x 4"d; 2 lbs.

**SX-100** – 1.6-60 MHz, 30/300/3kW PEP **$134.99**

**SX-200** – 1.8-200 MHz, 5/20/200W PEP . **$94.99**

**SX-400** – 140-525 MHz, 5/20/200W PEP **$114.99**

**SX-600** – Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges ..... **$169.99**

**SX-1000** – Dual band, 1.8-160 MHz and 430-1300 MHz, 5/20/200W PEP ranges ..... **$214.99**

### Cross-Needle SWR/Power Meters

*(right)* Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy; 3.3"w x 3.4"h x 3.7"d; 9 oz.

**SX-20C** – 3.5-30/50-54 and 130-150 MHz ranges; 30/300W. Needs 5W minimum for VSWR. **$89.99**

**SX-40C** – 144-470 MHz (220 MHz with correction factor); 15/150W (3W minimum power)... **$79.99**

## velleman inc. ELECTRONIC LAB KITS

Educational • The fun way to learn about electronics and the wonders of science • Safe and Solderless using spring coil connections and powered by AA batteries • Illustrated step by step manuals for easy project construction • No experience required!

**30 IN 1 VEL EL-301 ELECTRONIC LAB KIT**
Everything you need to build a radio, a burglar alarm, a water detector, a Morse code practice circuit, simple computer circuits and much more.

**$39.99**

**130 IN 1 VEL EL-1301 ELECTRONIC LAB KIT**
Built a radio, an AM broadcasting station, an electronic organ, a kitchen timer, logic circuits and much more. Comes with built-in speaker, 7-segment LED display, two integrated circuits and rotary controls.

**$89.99**

**$129.99**

**300 IN 1 VEL EL-3001 ELECTRONIC LAB KIT**
Everything you need to build 300 exciting electronic projects. A transistor radio, an IC organ, a burglar alarm, a battery checker, a delayed timer, an electronic game, a voltage controlled amplifier, multiplier, a multiple counter, a digital light dimmer, a tone burst generator, an audio signal tracer, an electronic candle, a voice level meter, a metal detector, a rain detector, a voltage drop alarm, a logic checker, a function generator and much more.

## VANCO.

### Low Cost Meters

**SWR-1 Field Strength or SWR Meter** – Range: 3.5-150 MHz; Impedance: 52Ω; SWR: 1:1–3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5" RF pick-up antenna. Dim: 6"h x 2"w x 2.9"d; 14 oz ..... **$24.99**

**SWR-3 SWR Meter** – Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1–3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 2.5"h x 3.5"w x 3"d; 6 oz ..... **$14.99**

**370052 Digital Multi-Meter** – 3.5 digit LCD, 0.5"h with polarity indicator; Measures DC volts in 5 ranges: 200mV–600V; AC volts: 200V and 600V; DC current in 5 ranges: 200uA-10A; Resistance in 5 ranges: 200Ω—20kΩ. Diode test: forward voltage drop; Transistor test: shows hFE value; Comes with 100-hour, 9V battery and plug-in test leads. Dim: 2.76"w x 4.96"h x 0.94"d; 6 oz ..... **$19.99**

## velleman inc. AVM-2050 ANALOG SOUND LEVEL METER

- Omni-directional electret mic.
- Ranges: 60, 70, 80, 90, 100, 110, 120dB (up to to 126dB)
- A and C weighting
- Fast/slow response
- Battery level indicator
- Battery included
- RCA output jack
- Dim: 6.3"h x 2.4"w x 1.7"d
- Weight: 0.4 lbs **$29.99**

## ALAN BROADBAND ZAP CHECKER

**Broadband Field Strength Bug Detector** – A wideband 10 MHz to 4.5 GHz receiver that provides visual indications of the presence of RF energy. Sensitive, detects 2.4 GHz bugs at 40 feet. Analog meter and LED display, for viewing at a distance and at night. Silent vibrator mode for in-pocket detection and hands-free operation. Use for bug detection, wireless, aircraft maintenance, health/environmental and ham radio. Detects and measures cell phone radiation, microwave ovens, computer wireless devices, microwave data transmissions, covert surveillance cameras and bugs, radiating PCs and electronic games, and background radiation levels. Dim: 2.1"w x 1.25"l x 5"h; 5 oz ..... **ZAP CHECKER $89.99**

**185** – Same as the ZAPCHECKER but is more sensitive than the original and covers approximately 3 MHz to 5.8 GHz. Also features an analog/digital switch ..... **$159.99**



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# DUMMY LOADS

**Simulates an accurate 50 ohm antenna and allows testing or tuning a transmitter without radiating a signal on the air.**

**A must for every hamshack!**

MFJ

250/250X 260C

**250 Versaload** – A 50 ohm Oil-filled Dummy Load providing low VSWR up to 400 MHz. Rated at 1000W CW or 2000W PEP for 10 minutes. Good for 20 minutes at 50% power rating and continuous operation at 200W CW or 400W PEP. SO-239 connector. Dim: 7.3"h x 6.6" diameter. Supplied with high-quality oil..... **$59.99**

**250X** – Same as above, but requires oil **$39.99**

**Dry Loads** – A non-inductive 50 ohm resistor mounted in a metal housing, air cooled. Full rated load for 30 sec., derating curve to 5 min.

**260C HF/VHF Range** – Rated at 300W at 1:1 VSWR up to 30 MHz, 1.5:1 to 650 MHz. SO-239 connector. Dim: 2.5"w x 2.5"h x 7"d.... **$34.99**

**260CN** – Has type "N" connector ..... **$39.99**

**264 UHF, Wide Range** – Good from 1.3 to 650 MHz and usable up to 750 MHz. Rated at 1500W for 10-seconds, 100W for 10-minutes. SO-239 connector. Dim: 3"w x 3"h x 9"d..... **$69.99**

**264N** – Has type "N" connector ..... **$79.99**

## VECTRONICS

DL-2500

DL-300M DL-650M

**DL-300M Dry Dummy Load** – Power handling curve rated at 300W for 15 seconds, to 100W for 40 seconds. VSWR <1.3:1 at 150 MHz.

Dim: 5"h x 2"d x 2.9"h; 8 oz..... **$44.99**

**DL-650M Dry Dummy Load** – Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 min. VSWR <1.3:1 at 500 MHz .. **$74.99**

**DL-2500 High-Power Dry Load** – A fan cooled heavy-duty load for up to 150 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes ..... **$189.99**

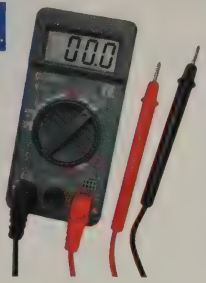
## AMERITRON

**ADL-1500 Oil Cooled Dummy Load** – Similar to MFJ-250, 1500W up to 30MHz..... **$69.99**

**ADL-2500 Dry Dummy Load** – Similar to Vectronics DL-2500 above, 2500W up to 30 MHz, fan cooled..... **$189.99**

**Your Inquiries are INVITED!**

velleman Inc.



**DVM-810**

**Digital Multimeter**

Compact design makes this meter a perfect fit for any toolbox or even shirt pocket! It features multiple functions and an easy-to-read LCD display. Measures voltage, current, resistance, transistor and diode, 3.5 digits, 19 ranges. Battery included ..... **$9.99**

**DVM-850BL**

**Digital Multimeter**

Auto polarity function manual ranging mode, data-hold function and 10 Amp overload protection. Measures DC current up to 10A, AC/DC voltage up to 600V, resistance up to 2MΩ. Diode, transistor and continuity test with buzzer. Backlit 3.5-digit LCD. Uses 9V battery (included). Protection holster and test leads. Dim: 2.6"w x 5.4"h x 1.18"d ..... **$19.99**

## Palstar, Inc Antenna Analyzer

**ZM-30** – An automated micro-controlled SWR antenna analyzer with an 8-bit controller and precision low power DDS signal generator. It also includes a self-calibrating reflectometer and displays SWR at selectable frequencies from 1 to 30 MHz. It measures: SWR, Impedance, Reactance, Inductors, Capacitors, Transmission lines, Stubs, Q, and Resonant frequency. There is a serial port for field upgradable software. Battery operation allows you to take it to the antenna. Durable, powder coated front panel. Dim: 3"w x 4"h x 2"d..... **$369.99**

MFJ

## SSB ADVENTURE RADIOS

A basic single-band radio providing 7-10W PEP (20W on 10M model) along with speech processing for an added 4–6dB advantage. Agile tuning reduction drive analog VFO tunes band quickly and zeros in smoothly. Low noise preamp and active double balanced mixer front end; Sharp 2.3 kHz SSB crystal ladder filter; Built-in Low Pass Filter; Analog S-meter; Amplifier control jack; Built-in Speaker; Handheld dynamic microphone. Uses only 3 Amps from 12V supply or battery. Dim: 2.5"h x 6.5"w x 6"d; 2 lbs.

**9402X** – 2M SSB Adventure Radio, 7W.. **$279.99**

**9406X** – 6M SSB Adventure Radio, 10W **$259.99**

**9410X** – 10M SSB Adventure Radio, 20W **$249.99**

***Available Accessories:***

1770A 10M dipole (9410X only), **4110** Portable AC power supply, **4114** Rechargeable power pack, **416** CW adapter, **971** 200W HF tuner (9410X only)

## VHF DATA RADIOS

**Don't tie up your expensive rig on a single packet channel, check out these low-cost MFJ Data Radios.**

**8621 PacketOnly™ 2M Transceiver** – Compatible with all TNCs with hardware DCDs and most TNCs with software DCDs. Features: 1200/9600 baud; 5W output; Low current drain only 15mA on receive and less than 1 amp on transmit. Dim: 5"w x 5"d x 1.5"h; Crystals installed for 145.01 MHz. **$149.99**

**8621X2 PacketOnly™ 2M Transceiver** – Ready for APRS use. Crystalled and aligned for 144.390 MHz; 5W output ..... **$159.99**

***Available Accessories:***

**4110** Portable AC power supply, **5100** Data radio cable (MFJ/TAPR), **5100YH** Data radio cable (KPC9612), **5100YV** Data radio cable (KAM/KPC3), **5106** Open end (6-pin mini) (Kenwood/Yaesu)

## ATV TRANSMITTER

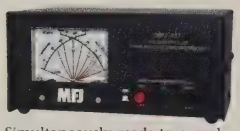
**8708 Micro ATV Transmitter** – Transmits a high quality amateur television audio and video signal on 433.97 MHz (cable channel 58, 59 or 60). Plug in an antenna and a video source (video camera, camcorder, or VCR). With a TV set, or down converter, tuned to the appropriate channel, you'll have a complete low power ATV video station. Puts out 50 to 100mW signal, capable of transmitting up to 1.8 miles with a 3-element beam. By using a suitable UHF amplifier, enjoy ATV communications over an extended range with other ATV ham operators. Requires 9V battery..... **$159.99**

# MFJ SWR/POWER METERS

**864** – Covers 1.8–60 MHz, 144 MHz and 440 MHz bands. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Monitor SWR and power simultaneously on the lighted Cross-Needle meter. Ranges: 30/300W forward and 6/60W reflected. Requires 12V DC for meter light. Dim: 7.25"w x 2.5"h x 2.25"d ..... **$84.99**

**862** – Similar to the 864, but for 144, 220 & 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75"w x 2.5"h x 2.25"d ..... **$54.99**

**860** – Similar to the 864, but covers 1.8 to 60 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 4.5"w x 2.25"h x 3"d ..... **$44.99**

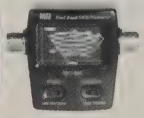


815C/
817C

**815C** – Simultaneously reads true peak or average power and SWR simultaneously on a large illuminated three-inch Cross-Needle meter. Covers 1.8–30 MHz with 300/3000W forward and 60/600W reflected power ranges. SO-239 connectors. Requires 12VDC. Dim: 6"w x 3.5"h x 4.5"d ..... **$89.99**

**817C** – Similar to 815C but for 144/220/440 MHz with 300/30W forward and 60/6W reflected power ranges. Dim: 6"w x 3.5"h x 4.5"d ..... **$99.99**

812B/ 816



844

**812B** – Indicates forward and reflected power on 2M/220 MHz and SWR from 144–220 MHz, plus field-strength from 1–220 MHz. Power ranges: 30/300W. Dim: 4.5"w x 2.25"h x 3"d ..... **$34.99**

**816 Toroidal Meter** – Indicates forward and reflected power from 1.8–30 MHz. Power ranges: 30/300W. Dim: 4.5"w x 2.25"h x 3"d ..... **$34.99**

**844 VHF/UHF SWR/Power Meter** – Covers 144 and 440 MHz, rated up to 200W. Multi-colored meter shows SWR/POWER in 15, 60, and 200W ranges. Great to take along for portable, HT or mobile rigs. Dim: 3.75"w x 3"h x 1.25"d ... **$69.99**

## GrandMaster™ SWR/Wattmeters

Four models with different frequency and power ranges. Easy-to-read 3.25"w x 1.25"h illuminated meter shows peak and average, forward and reflected power in three ranges. Dim: 7.5"w x 3.125"h x 4.25"d.

**870 (HF range)** – 1.6 to 60 MHz.
Power ranges: 30/300/3000W + VSWR.... **$129.99**

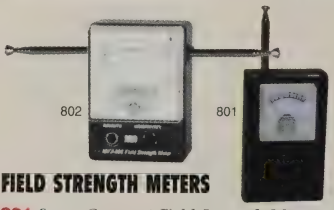
**872 (HF/VHF range)** – 1.8 to 200 MHz
Power ranges: 5/20/200W + VSWR ..... **$94.99**

**873 (VHF/UHF range)** – 125 to 525 MHz.
Power ranges: 5/20/200W + VSWR..... **$114.99**

**874 (HF/VHF/UHF range)** – 1.8 to 525 MHz.
Power ranges: 5/20/200W +VSWR..... **$169.99**

**267 Precision SWR/Wattmeter with Dry Dummy Load**

Usable 1.8 to 60 MHz. Large 3 in. Cross-Needle meter shows peak and average forward and reflected power and SWR. Power: 300/3000W forward, 60/600W reflected; SWR 1:1 to 8:1; Built-in 100W 50 ohm dummy load; Load to antenna switch; Uses 12VDC for the meter lamp or 120VAC with 1312D, or 9V battery. Dim: 4"w x 3.125"h x 10"d ..... **$149.99**



802 801

## FIELD STRENGTH METERS

**801 Super Compact Field Strength Meter** – You can read relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Its compact size fits in the palm of your hand. Telescopic whip included. Dim: 2.375"w x 3.625"h x 1"d ..... **$19.99**

**802 Bipolar Field Strength Meter** – Dual whips are included. Dim: 2.4"w x 4"h x 1.5"d..... **$39.99**

## AC LINE VOLTAGE MONITOR

**850B** – Plug in to the nearest wall outlet and monitor your AC line voltage. The color coded scale lets you read from 95 to 135 Volts AC. There's a built-in AC socket so you still have the outlet available. Dim: 2.75"w x 4"h x 1.1"d **$21.99**

**224 2M FM Signal Analyzer™**
Covers 143.5-148.5 MHz. Measures signal strength (60dB range), antenna gain, beamwidth, front-to-back ratio, sidelobes and feedline loss. Check and set FM deviation, plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters, analyze modulation wave forms, measure audio distortion, noise and peak deviation. Headphone jack. Dim: 4"w x 2.5"d x 6.75"h. **$149.99**

**852 Power Line Noise Meter**
A sensitive AM receiver fixed tuned in the 135 MHz range coupled with a directional telescopic dipole antenna locates AC line and other noise fast. Antenna is balun isolated to give a clearly defined null for pin-pointing interference sources. Wide range level meter to view or plug in headphones to hear the noise, or use a tape recorder for later playback. Uses 9V battery. Dim: 2.8"w x 4"h x 1.5"d ..... **$99.99**

**805 Pocket-Sized RFI Detector**

Track and eliminate RFI caused by radiating cables and wires. Simply clamp the top mounted current transformer over a suspected cable or wire (up to 1/4 inch diameter) to detect RFI causing common-mode currents. Useable from VLF to VHF. Uses 9V battery. Dim: 2.25"h x 4.75"h x 1"d..... **$79.99**

**854 RF Current Meter** – The top-mounted sense coil snaps over wires, cables, etc. up to 1/2" diameter. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines. Six ranges, 30mA to 3A; Accurate 1 to 30 MHz; Range with variable sensitivity control; Auto-off, press-to-test circuit; All aluminum case and G-10 PC board. Dim: 2.5"w x 5.5"h x 1.5"d; 11 oz ..... **$99.99**

**886 Pocket Frequency Counter**
Covers 1 MHz to 3 GHz with direct 300 MHz count with 0.1 Hz resolution on a 10-digit, 3/4 in. LCD display. Ultra sensitive synchronous detector; RF Signal Strength LCD bargraph; Four selectable gate times give 0.1-10 Hz resolution in the 300 MHz range and 10-1000 Hz resolution in the 3 GHz range. Includes a rechargeable 6-hour Ni-Cd battery. Dim: 2.75"w x 3.25"d x 1.25"d..... **$119.99**

**888 Deluxe Frequency Counter**
Measures frequency and period. Covers 10 Hz to 3 GHz with a 10-digit LCD and an ultra-sensitive synchronous detector with 16-section RF signal strength bargraph. A high-speed 300 MHz direct counter with 0.1 Hz resolution and four selectable gate speeds. Hi-Z low range; Auto-hold; LED backlight; Beeper; Hold; Low battery indicator. Built-in 6-hour Ni-Cd battery pack. Complete with battery pack, charger, and telescopic whip. Dim: 2.75"w x 4.25"h x 1.25"d; 9 oz ..... **$184.99**

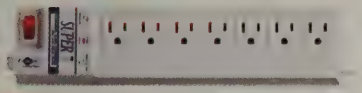
## L-A-R-G-E SWR/Wattmeter

**868** – Measures 6-1/2 inches diagonally across the meter scale. Easy-to-read with big high contrast numbers and ultra-fine resolution. Covers 1.8-30 MHz and indicates true Peak or Average Forward and Reflected power and VSWR. Useable for QRO or QRP operation with 20/200/2000W ranges. Power saver circuit turns on meter only when RF power is applied. Uses 9V battery, 12V DC or 110V AC with MFJ-1312D adapter ($14.99). Dim: 7"w x 5.5"h x 5"d. **$139.99**



AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## TRIPP LITE SURGE SUPPRESSORS

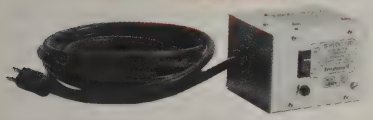


**SUPER-7** – For spike suppression and noise filtering. Provides 18,000 amp surge suppression, and RFI/ EMI filtering. Seven outlets, 7-foot cord, three diagnostic LED indicators ..... **$19.99**

**SUPER-7+TEL** – Same as above with 6 outlets and fax/modem protection for modular jacks... **$29.99**

**ISOBAR-8 ULTRA Premium Surge Protector** – Rugged all metal housing won't break or burn. Isolated filter banks eliminate interference between connected equipment. Massive 1,200 joule, 96,000 amp spike suppression; Diagnostic alarm system indicates wiring faults, protection circuitry and power line status; 8 outlets, extra long 12 ft. cord ..... **$79.99**

## PolyPhaser CORPORATION



**Power Line Extension Protector** – In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding for a 120V AC line. Two grounded outlets, power switch, and circuit breaker. Heavy duty, all aluminum grounded enclosure; 4.75" wide.

**PLDO-120US15A** – 15' cord; 120V/15A **$169.99**
**PLDO-120US20A** – 6' cord; 120V/20A. **$199.99**

## REMOTE CONTROL OUTLET SYSTEM

LA CROSSE TECHNOLOGY

**RS-204U Remote Control Outlet System** – Now control multiple outlets by Remote Control. These units plug into existing wall and allow remote controlled on/off switching for lamps, tools, appliances, etc. – drawing up to 20 Amps. Range is up to 80 ft. even through walls. Includes two outlets and remote control. Powered by 2 AAA batteries (not included)..... **$29.99**

## Order Now Toll Free from any AES Location

## POWER PLUGS/ADAPTERS

VANCO™

**P-212 2-Outlet Cigarette Plug Adapter** – Allows use of two 12V accessories from 1 outlet ..... **$4.99**

**P-212B Dual Cigarette Socket** – Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse ..... **$8.99**

**P-12R 2-Contact Cigarette Plug** – Solder type with strain relief and grip end ..... **$1.99**

**P-12V Cigarette Plug** – Cigarette lighter plug with connecting leads ..... **$1.99**

**P-12X Cigarette Lighter Plug** – Easy to use solderless plug. Wires crimp to terminals ..... **$1.69**

NCG™ COMPANY

## Power Pocket

Portable Power for emergencies, hamfests, hiking, etc. The 12V @ 2 Amp/hour sealed lead-acid rechargeable battery provides up to 6x longer talk time than standard packs. Recharges completely in 6 to 8 hours, with supplied charger. Partial discharges can be recharged to 100% without memory effect. Radio conveniently plugs into included female adapter socket. Includes a compact carrying case with belt loop and shoulder strap.
Dim: 3.5"w x 1"d x 6.5"h; weight 30 oz. **$66.99**

## RECHARGEABLE BATTERIES

MAHA AA | MAHA AAA | MAHA 9V | MFJ AA

**Maximum life • Memory-free operation**
**Rechargeable hundreds of times**
**Excellent for high current applications**

### MAHA RECHARGABLES

**4-AA-250BH** – 4 pack of 1.2V 2500mAh rechargeable AA NiMH batteries in plastic case..... **$12.99**
**AAAT** – 1.2V 650mAh rechargeable AAA NiMH batteries ..... each **$2.99**
**9V** – 8.4V, 170mAh (9V sized) ..... each **$8.99**

### MFJ RECHARGABLES

**92AA01** – 1300mAh NiMH AA's ..... each **$2.99**
**92AA10** – Same as above..... (10-pack) **$24.99**

## REPLACEMENT HT BATTERY PACKS

MAHA's replacement battery packs can increase your handhelds performance up to two times. Check out the Price Guide under MAHA for a list of battery packs for Yaesu, Icom, Kenwood, and Standard radios.

## CHARGERS

MAHA

**MH-C888 Universal Drop-In Rapid Charger and Conditioner** – Incorporates special FLEX negative pulse feature to prevent crystallization when charging 4.8 to 12V NiMH/NiCad battery packs. Deep-conditioning feature does three consecutive charge and discharges before final charge. Built-in switching AC power supply, for home, office and 12V portable use ..... **$59.99**

**MH-C777 PLUS II Smart Universal Charger and Analyzer/Conditioner** – Charges most NiMH, NiCad, Li-ion and Li-polymer battery packs. Built-in circuitry with LCD status automatically senses battery voltage. Includes external 110V switching power supply and 12V cord with cigarette lighter; Discharge-only feature retains discharged battery capacity on screen; Enhanced Li-ion algorithm reduces charging time ..... **$74.99**

**MH-K5000 One Hour Worldwide Travel Conditioning Charger**
Globally certified and compliant with an integrated 100 to 240V 50/60 Hz switching adapter. Revives and conditions poorly performing batteries. Four unique charging phases: Startup charge; Rapid charge; Top-off charge and Maintenance charge. Batteries may be left in for extended periods without overcharging. Recharge (2) AA/AAA batteries in around one hour. Recharge (4) AA/AAA batteries in about two hours. Compact, lightweight (4 oz.) Includes (4) AA 2500 mAH NiMH batteries ..... **$39.99**

## MFJ Intelligent Charger

**633** – Charges 2 or 4 NiCad and NiMH AAA, AA, C, D (charging 2 at a time) and 1 or 2 9V cells. Ultra-fast, safe constant pulse current charging; IC detects both +DV and -DV, and monitors the voltage level during charging. Discharge Mode deep conditions to correct memory, and can rescue weak or dead batteries. Ends with final trickle charge. 120 VAC or 12 VDC ..... **$24.99**

VANCO™

## Alligator Clip Test Lead Set

**CL-3** – Extra heavy duty 10-piece alligator test lead set. Five different colored pairs, 22 in. long .. **$6.99**

## ASTRON CORPORATION POWER SUPPLIES

### The Low Cost Alternative

105–125V AC input, 13.8V DC output; Internally adjustable from 11–15V; Electronic regulation with fold-back current limiting and crowbar overvoltage protection; Heavy-duty heat sink; Three-wire cord; One-year warranty; Made in U.S.A.

Separate Volt and Amp meters on **RS-20M, 35M, 50M** and **70M**. Separate Volt and Amp meters, plus Voltage Adjustment (2–15V DC) on **VS-20ML, VS-35M** and **VS-50M**. The **RM-35M, RM-50M** and **RM-60M** are Rack Mount models, plus Separate Meters.

| Model | Cont. Amps | ICS Amps | Size (in.) H W D | Shipping weight | Price |
|---|---|---|---|---|---|
| RS-7A | 5 | 7 | 3.75 x 6.5 x 9 | 9 | $59.99 |
| RS-10A | 7.5 | 10 | 4 x 7.5 x 10.75 | 11 | 69.99 |
| RS-12A | 9 | 12 | 4.5 x 8 x 10.75 | 13 | 79.99 |
| RS-20A | 16 | 20 | 5 x 9 x 10.5 | 18 | 99.99 |
| RS-35A | 25 | 35 | 5 x 11 x 11 | 27 | 149.99 |
| RS-35A/220V | Same as RS-35A but 220V input | | | | 179.99 |
| RS-50A | 37 | 50 | 6 x 13.75 x 12 | 46 | 219.99 |
| RS-70A | 57 | 70 | 6 x 13.75 x 12 | 48 | 279.99 |
| With separate Volt & Amp meters | | | | | |
| RS-20M | 16 | 20 | 5 x 9 x 10.5 | 18 | 119.99 |
| RS-35M | 25 | 35 | 5 x 11 x 11 | 27 | 169.99 |
| RS-50M | 37 | 50 | 6 x 13.75 x 11 | 46 | 239.99 |
| RS-70M | 57 | 70 | 6 x 13.75 x 12 | 48 | 299.99 |
| Adjustable output; separate Volt & Amp meters | | | | | |
| VS-20ML | 16 | 20 | 5 x 9 x 10.5 | 20 | 139.99 |
| VS-35M | 25 | 35 | 5 x 11 x 11 | 29 | 199.99 |
| VS-50M | 37 | 50 | 6 x 13.75 x 11 | 46 | 259.99 |
| Rack mount; separate Volt & Amp meters | | | | | |
| RM-35M | 25 | 35 | 5.25 x 19 x 12 | 38 | 259.99 |
| RM-50M | 37 | 50 | 5.25 x 19 x 12 | 50 | 299.99 |
| RM-60M | 50 | 55 | 7 x 19 x 12 | 60 | 389.99 |

### POWER SUPPLIES with added Features

**RS-4L** – Has a built-in cigarette lighter receptacle in the front panel. 13VDC @ 4A peak, 3 Amps continuous. Dim: 3.5"h x 6.5"w x 4.25"d; 6 lbs ..... **$49.99**

**RS-12S** – Has a built-in front mounted speaker. Rated 13VDC @ 12A peak, 9 Amps continuous. Dim: 4.5"h x 8"w x 9"d; 13 lbs..... **$89.99**

### Small & Lightweight!
### SWITCHING POWER SUPPLIES

**SS-25** – 12V DC, rated 20A continuous, 25A ICS. Dim: 3"h x 7"w x 9.5"d; 4.2 lbs... **$119.99**

**SS-25M** – Same as above but with Volt and Amp meters..... **$139.99**

**SS-30** – 12V DC, rated 25 Amps cont, 30 Amps ICS. Dim: 3.75"h x 7"w x 9.5"d; 4.5 lbs.... **$129.99**

**SS-30M** Same with Volt/Amp meters.... **$149.99**

### POWER INVERTERS

**N2412-12** 28V Aircraft – Converts 22–32V DC input to 13.8V DC output @ 10 amps. Eliminates tapping into a 28V battery for 12V..... **$59.99**

**N2412-24** – Same as above, rated at 20A **$89.99**

### SWITCHING POWER SUPPLIES

**SS-330W Regulated, Variable Switching Power Supply** – Provides 5 to 5 VDC at 30 amps continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, Green power/Red protection LEDs; Detachable AC cord; Carrying handle; Built-in fan. Dim: 5.2"w x 4"h x 10.5"d; wt. 4.3 lbs ..**$169.99**

**SS-505 Regulated, Variable Switching Power Supply** – Recommended for those higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. Provides 5 to 15 VDC at 50 amps continuous (55A max). Features: Dual purpose Amp/Voltage meter; Binding posts on the rear panel; Low amperage spring loaded terminals and cigarette lighter jack on the front panel; Green power/Red Protection LEDs; Carrying handle; Built-in automatic fan. Dim: 9"w x 5"h x 12.5"d, 8.4 lbs.....**$399.99**

### DIAMOND ANTENNA SWITCHING POWER SUPPLY

**GZV-4000 Switching Mode DC Power Supply with Built-in Speaker** – 120V AC input; Variable output 5–15V DC with convenient center detent at 13.5V DC; 40 Amps continuous rating @ 100% duty cycle; Over temperature, overload, short-circuit protection with current foldback at approximately 42 Amps; Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear, cigarette lighter jack on front; Filtered AC line.
Dim: 8.25"d x 13"w x 4.5"h; 8 lbs..... **$179.99**

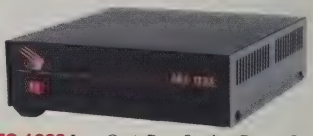
### SMALL POWER SUPPLIES

**38-384**
**Light-duty DC Supply** – Input: 115 V AC; Output: 13.8V DC regulated @ 4 Amps; Front panel binding posts; LED indicator, fused protection. Dim: 7.75"d x 4.75"w x 3"h; 5.5 lbs **$49.99**

**38-305**
**AC Adapter** – Provides multiple low-voltage DC to operate various battery powered equipment requiring 3, 4.5, 6, 7.5, 9 or 12V DC with a max. current rating of 500ma. Multiple application plugs and 9V snaps fit most devices..... **$11.99**

## SAMLEX AMERICA

### SWITCHING POWER SUPPLIES

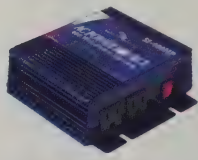


**SEC-1223 Low Cost, Base Station Power Supply for HF, UHF & VHF Transceivers** – Switching mode design with 23 Amp rating (UL approved). Current limiting; Short circuit protection; Overvoltage protection; Anodized black chassis and powder coat wrinkle black steel cover; Cooling fan. Input: 110-120VAC (200-240VAC with a jumper removal but voids UL approval). Output 13.8VDC. 3-year warranty. Dim: 7.2"w x 8.7"d x 2.2"h; 3.3 lbs . **$99.99**

**SPS-1204UL Switching Supply** – Small and lightweight, provides highly regulated DC power. Cigar lighter output socket on front panel and wire terminals on rear. Over-voltage protection; Current limiting, Illuminated On/Off switch. UL and cUL approved; 110-125 VAC input; 13.2 VDC output @ 3.5 Amps. Dim: 2"h x 4"w x 6.3"d; 2 lbs.... **$29.99**

### DC to AC INVERTERS

**SI-175HP 175 Watt 12VDC-110VAC Inverter** Useful anywhere when 110VAC isn't available – boats, RVs, emergency, etc. Uses high efficiency switching mode design with modified sine wave output voltage and low idle power draw (<0.05A). Overload protection, low battery alarm and shut down. Cigar lighter; 10-15VDC input; 115 Volts RMS output; 175W (continuous), 350W (surge); Dim: 1.6"h x 4.7"w x 5.4"d; 1.8 lbs ..... **$29.99**



**SI-400HP**
**400W 12VDC to 115 VAC Inverter** – Similar to the **SI-175HP**, but higher (400W) rating. Cigar lighter plug input connector and battery clamp included; Input Voltage: 10-15 VDC input; 115 Volts RMS output; 400W (continuous), 800W.(surge).
Dim: 2.4"h x 6.3"w x 6.3"d; 2.9 lbs ..... **$49.99**

### CELL PHONE CHARGER

**FCP-1000 12V–1000mA Adapter/Charger** – For operating or charging cell phones. Wall mount with cigar lighter receptacle; 110-120VAC input; 12VDC output; 1000mA, 19W output current. Dim: 2.25"h x 2.75"w x 4.25"d; 1 lb ..... **$9.99**

*For more Power Supplies please check pages 31, 57, 59, & 131*


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

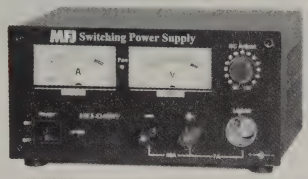
# MFJ Switching Power Supplies

*Power your HF transceiver, 6 meter/2 meter/440 MHz Mobile/Base and accessories with these 25 or 45 Amp MFJ MightyLite™ Switching Power Supplies!*

**No RF hash • Super lightweight • Super small • Volt/Amp Meters**

4125

4225MV



4245MV

**Small & Lightweight** – *MightyLites™* are so light and small you can carry them in the palm of your hand! Take them with you anywhere – no more hauling around heavy, bulky supplies.

**Lightweight** – The 25A *MightyLite™* only weighs 3.7 pounds – *5 times lighter* than an equivalent conventional power supply. And, the 45A model weighs just 5.5 pounds!

**No RF Hash** – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But, these babies are clean!

**Low Ripple and Highly Regulated** – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

**Fully Protected** – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.

**Worldwide Versatility** – Switchable AC input voltage for 85-135 or 170-260VAC.

**Mighty Features** – Model **4225MV** and **4245MV** feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way Heavy Duty binding posts and cigarette lighter socket for mobile accessories. The **4245MV** has two sets of quick-connects on the rear for accessories. Dual three inch illuminated meters monitor load voltage and current. Internal fan.

**4125 (left)** – Basic, no metering. 25 Amps maximum or 22 Amps continuous operation. Dim: 5.5"d x 2.5"w x 2.5"h; 3.5 lbs..... **$109.99**

**4225MV (center)** – 25A maximum or 22A continuous. Dim: 5.75"w x 4.5"h x 6"d; 3.7 lbs .... **$149.99**

**4245MV (right)** – 45A maximum or 40A continuous. Dim: 7.5"w x 4.75"h x 9"d; 5.5 lbs .... **$199.99**

**4103**
**Miniature Switching Power Supply**

Ideal for the Yaesu FT-817 and other QRP rigs. Input is 100-240 VAC and delivers 13.8 VDC @ 2.89 Amps output. Fully protected for over-voltage, over-current, and over-temperature. Includes a DC output cable with a 2.1mm plug that fits most MFJ, other ham accessories and QRP rigs. An adapter cable for the Yaesu FT-817 is included. Dim: 4-1/8 x 2-5/8 x 1-3/8 in.; 10 oz..... **$39.99**

# MFJ 35/30 Amp Adjustable Regulated DC Power Supply

**Massive 19.2 pound transformer • No RF hash • Adjustable 1 to 14 VDC**

**Super Heavy Duty** – This conventional power supply is excellent for powering all types of amateur transceivers and accessories. A massive 19.2 pound transformer allows this power supply to easily deliver 35A maximum and 30A continuous. It's highly regulated with load regulation better than 1% and ripple voltage less than 30 mV.

**Fully protected** – Over voltage, fold back and short circuit protection. A whisper quiet fan keeps components cool by increasing speed as load increases.

**Adjustable Voltage** – Front panel control allows adjustment from 1 to 14 VDC with a convenient detent set at 13.8V. Dual front-panel meters monitor voltage and current.

**Versatile** – There are three sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, two pairs of quick-connects for accessories and a cigarette lighter socket for those mobile accessories.

**Dim:** 9-1/2 x 6 x 9-3/4 in.; 20.6 lbs.

4035MV
**$149.99**

# MFJ High Current Multiple DC Power Outlets

**Distribute power to transceivers and 6 or more accessories from your 12 VDC power supply**

**1118 Deluxe Multiple DC Power Outlet** – The most versatile and highest current rating. Connect to a 12VDC source and distribute power to 2 transceivers and 6 or more accessories. Features 2 pairs of Super Heavy Duty 30A, 5-way binding posts, fused RF bypassed and rated 35A total draw. 6 pairs of 5-way binding posts for accessories rated for 15A total draw. Master fuse, On-Off switch with power LED. Built-in 0-25 VDC voltmeter, 6 ft. of 8-gauge, color-coded cable with ring tongue terminals. Binding posts are spaced for standard dual banana plugs. Dim: 12.5" x 2.75" x 2.5"..... **$74.99**

**1117** – Similar to the 1118 but no meter, power LED or On-Off switch. Powers up to 4 radios at the same time. Two 35A single posts and one 35A dual post. Dim: 8" x 2" x 3" – mounts almost anywhere!. **$54.99**

**1116** – Similar to the 1118 but does not have 30 Amp posts. Has "Power On" LED and 0-25 VDC voltmeter. Rated at 15A total draw..... **$49.99**

**1112** – Similar to the 1116 but no On-Off switch, power LED, voltmeter or fuse..... **$34.99**

**www.mfjenterprises.com**

*More Power Supplies on pages 31, 57, 58, & 131*

We accept I.M.P.A.C.® Government Credit Cards

# MIRAGE Power Amplifiers

## Boost Mobile, Base or Handheld Power!

*All Modes: FM, SSB, CW . . . Superb GaAs FET preamplifier in G Models*
*Overdrive, high SWR, Over-temperature protection . . . Remote controllable*

### 2 Meters All Mode

**B-5018G** – 160W output with 50W input. Low Noise GaAsFET Preamplifier. Requires 17 - 24 amps @ 13.8VDC. Dim: 5.5"w x 3"h x 12"d..... **$299.99**

| Power Curve – typical for the B-5018-G | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IN | 0.5 | 5 | 8 | 10 | 15 | 20 | 25 | 35 | 50 |
| OUT | --- | 52 | 99 | 119 | 125 | 130 | 135 | 145 | 160 |

**B-2518G** – 160W output with 25W input. Low noise GaAsFET preamplifier. Requires 17-24 Amps @ 13.8VDC. Dim: 5.5"w x 3"h x 12"d ..... **$299.99**

| Power Curve – typical for the B-2518-G | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IN | 0.5 | 5 | 8 | 10 | 15 | 20 | 25 | --- | --- |
| OUT | 5 | 56 | 91 | 111 | 135 | 153 | 160 | --- | --- |

**B-1018G** – 160W output with 10W input. Low noise GaAsFET preamplifier. Requires 17-24 Amps @ 13.8VDC. Dim: 5.5"w x 3"h x 12"d ..... **$369.99**

| Power Curve – typical for the B-1018G | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IN | 0.5 | 5 | 8 | 10 | --- | --- | --- | --- | --- |
| OUT | 30 | 150 | 155 | 160 | --- | --- | --- | --- | --- |

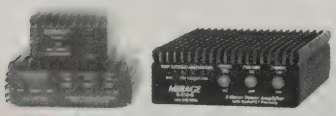
**B-2530G** – 300W output with 25W input. Low noise GaAsFET preamplifier. Requires 48 amps @ 13.8VDC. Dim: 12"w x 5"h x 12"d..... **$699.99**

| Power Curve – typical for the B-2530G | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IN | 1 | 3 | 5 | 10 | 25 | --- | --- | --- | --- |
| OUT | 30 | 95 | 140 | 250 | 300 | --- | --- | --- | --- |

**B-5030G** – 300W output with 50W input. Low noise GaAsFET preamplifier. Requires 48 amps @ 13.8VDC. Dim: 12"w x 5"h x 12"d..... **$669.99**

| Power Curve – typical for the B-5030G | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IN | 1 | 3 | 5 | 10 | 25 | 50 | --- | --- | --- |
| OUT | --- | --- | 55 | 150 | 220 | 300 | --- | --- | --- |

**B-320G** – Up to 200W output. Low power input for Handheld Radios 250mW to 10W. High power input for mobile radios, 10W to 50W. Low noise GaASFET preamplifier..... **$439.99**



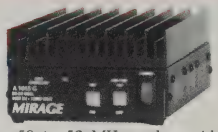
**B-34G** (left/bottom) – Boosts 2M HTs with up to 8W output to 35W+ output. SSB/FM. GaAsFET preamp and mobile bracket. 13.8 VDC @ 4A . **$99.99**

**B-34** (left/top) – Like B-34G but FM only, no preamp/mobile bracket. Dim: 3.125" x 1.75" x 4.5" .. **$79.99**

**B-310G** (right) – Boosts 0.25 to 8W 2M Handhelds to 25-100W+ output. Includes preamp, mobile mounting bracket & BNC to amp patch cable. 13.8 VDC @15A. Dim: 4.75"w x 1.75"h x 7.5"d **$189.99**

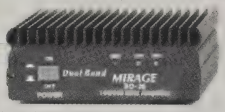
| Power Curve – typical for the B-310G | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IN | .25 | 0.5 | 1 | 2 | 4 | 6 | 7 | 8 | --- |
| OUT | 25 | 50 | 75 | 95 | 100 | 100 | 100+ | 100+ | --- |

### 6 Meters All Mode



**A-1015G** – Covers 50 to 52 MHz and provides 150W output with 10W input; FM/SSB/CW. Built-in Low Noise GaAsFET receive preamplifier, internal T/R switching and remote keying. 13.8 VDC @ 18-23 Amps. Dim: 5.5"w x 3"h x 12"d; 5 lbs. **$359.99**

### 2M/440 Dual Band



**BD-35** – For DUAL-BAND HTs with up to 7W output. Produces up to 45W output on 2M and 35W on 440 MHz. Automatic band selection, full duplex operation. Single connector for dual band radios and antennas. 12-15 VDC @ 7A. Mobile bracket included. Dim: 5"w x 1.75"h x 5"d..... **$149.99**

| Power Curves – typical BD-35 output power | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Watts Out (2M) | 30 | 40 | 45 | 45+ | 45+ | 45+ | 45+ | 45+ |
| Watts Out (440 MHz) | 16 | 26 | 32 | 35+ | 35+ | 35+ | 35+ | 35+ |
| Watts In | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

### Remote Control Heads

**RC-1** – Allows remote control of Mirage amplifier functions: Power and preamp On-Off, FM/SSB mode select. Only 1.75" x 3.75" x 2.5". Comes with 18 ft. head to amplifier control cable..... **$45.99**

**RC-2** – for B-XX18G series amplifiers..... **$45.99**

### More MIRAGE amps...

Including models for 220 MHz, 430-440 MHz. Also, continuous duty Repeater Amplifiers for 6, 2, 1-1/4 meters, 70 cm, 450 MHz & ATV.

*See the Price Guide under MIRAGE*

### Low Noise GaAsFET Receive Preamps

Improves weak signal reception; <0.8dB noise figure; 15–22dB gain with selectable level prevents receiver overload and intermodulation; Automatic TR switching up to 100W thru put; Rugged die-cast enclosures; In-Shack or Mast-Mount models.

**In-Shack Models – $129.99 each**

**KP-1/6M** – 50-54 MHz **KP-1/2M** – 144-148 MHz
**KP-1/440** – 430-450 MHz

**Mast Mount Models – $179.99 each**

**KP-2/6M** – 50-54 MHz **KP-2/2M** – 144-148 MHz
**KP-2/440** – 430-450 MHz

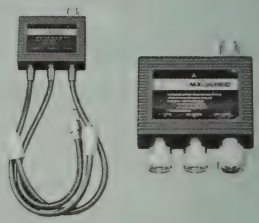
All MFJ products come with MFJ's *No Matter What*™ one year limited warranty.
Not including kits, books or software.

### DUPLEXERS

| Type | SO239 PL259/PL259 | SO239 PL259/Nmale | SO239 SO239/SO239 | SO239 PL259/PL259 | SO239 PL259/Nmale | Nfemale PL259/Nmale | PL259 SO239/SO239 |
|---|---|---|---|---|---|---|---|
| Leads | No | No | No | Yes | Yes | No | Yes |
| 2m/440 | Comet CF4160K Diamond MX72D | Comet CF4160I | Comet CF4160J MFJ 916B | Comet CF416A Comet CF530 Diamond MX72H | Comet CF416B Diamond MX72N Yaesu AD3 | Comet CF416C Comet CF416W | |
| 2m/220 | Diamond MX214D | | | Comet CF142 | | | |
| HF/6 to 440 | | | | Comet CF360A | | | Comet CF360B |
| HF to 6/2m | | | | Comet CF706A Diamond MX62M | | | |

### TRIPLEXERS

| Type | Leads | HF/6/2/440/1200 | HF/6/2/440 | 2/220/440 |
|---|---|---|---|---|
| Nfemale PL259/PL259/Nmale | No | Comet CFX4310C | | |
| SO239 PL259/PL259/PL259 | Yes | Diamond MX2000 | Comet CFX514 | Comet CFX324A Diamond MX324 |
| SO239 PL259/PL259/PL259 | No | | Comet CFX5140 | Comet CFX324B Diamond MX324D |
| Nfemale PL259/PL259/Nmale | Yes | Diamond MX3000 | | |
| SO239 PL259/PL259/Nmale | Yes | | Comet CFX514N | |
| SO239 SO239/SO239/SO239 | No | | Comet CFX514J | |



For Duplexer/Triplexer prices, see the Price Guide under each respective manufacturer.



AES
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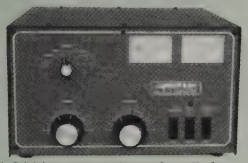
## 811A HF Amplifiers

- Covers 160-15M, including WARC/MARS band
- HD silicon steel core Plate Transformer (17 lbs.)
- Tuned Input; ALC Control; Quiet Air Cooling
- Dual Meters (Plate Voltage, Grid and Plate Current); Vernier Reduction tuning
- Dim: 15.5"d x 13.75"w 8.25"h; Weight: 52 lbs.

*NOTE: 10/12 meter Modification Kits for Ameritron Amps are available to licensed Hams direct from Ameritron*



**AL-811** – Uses (3) 811A transmitting tubes. Delivers 600W PEP output SSB/500W CW ..... **$619.99**

**AL-811H** – Uses (4) 811A transmitting tubes. Delivers 800W PEP SSB/600W CW..... **$749.99**

## 3-500Z HF Amplifier

- Covers 160-15M, including WARC bands
- A Full KW PEP! (70% efficiency)
- HD silicone steel core Plate Transformer (26 lbs) and Computer Grade capacitors
- Tuned Input; Adjustable ALC; Air Cooled
- Dual Cross-needle meters (SWR, PEP power, Plate voltage, Grid and Plate current)
- Operates from 90-140VAC or 205-250VAC
- Dim: 15.5"d x 14.5"w x 18.5"h; Weight: 48 lbs.

**AL-80B** – Uses a single 3-500Z transmitting tube. Delivers 1000W PEP output SSB/850W CW. The high-voltage secondary can be wired to reduce plate voltage for efficient operation below 400W for use outside the USA..... **$1299.99**

## Solid State HF Mobile Amplifier

**ALS-500M** – Increase your HF mobile power up to 500W PEP/400W CW. Continuous coverage 1.5-22 MHz. Uses (4) 2SC2879 RF power transistors. Instant bandswitching, no tuning, no warm-up and SWR protected. Runs nicely from 13.8 VDC mobile electrical system drawing 80 Amps peak current. Dim: 3.5"h x 9"w x 15"d; 7 lbs..... **$749.99**

**ALS-500RC** Remote Head – Mount ALS-500M amplifier anywhere with: Band select, On/Off and DC Current Meter. TX/overload LEDs..... **$49.99**

## Solid State Base Amplifier

**ALS-600** – No Warm Up, No Tune Up – Just turn on and operate. Uses (4) 2SC2879 RF power transistors with 600W PEP/400W CW output and continuous coverage 1.5-22 MHz. SWR and power protected. Includes AC power supply. Dim: amp and supply both 6"h x 9.5"w x 12"d. Wt: 30 lbs ..... **$1129.99**

**ALS-600S** – Similar but with ALS-600SPS switching power supply; Weight: 22.5 lbs ..... **$1249.99**

# AMERITRON

## 3CX-800A7 HF Amplifiers

- Cover 160-15M, including WARC bands
- HD silicon steel core Plate Transformer (32 lb.)
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Operates on 90-140 VAC, 200-250 VAC
- Dim: 8.5"h x 16.5"w x 13.75"d; Weight: 52 lbs.

**AL-800** – Uses as a single *Eimac*® 3CX800A7 tube. Delivers 1250W PEP SSB output..... **$1699.99**

**AL-800H** – Uses (2) *Eimac*® 3CX800A7 tubes. Delivers 1500W PEP SSB output..... **$2499.99**

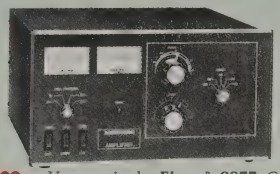
## 572B HF Amplifier

- Covers 160-15M, including WARC bands
- Heavy Duty silicone steel core Plate Transformer
- Instant 3 second warm up
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-needle meters show SWR, Plate voltage, Grid and Plate current
- Multi-voltage Operation
- Size: 8.5"h x 15.5"w x 14.5"d; Weight: 40 lbs

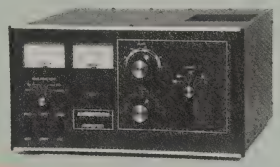
**AL-572** – This *Near Legal Limit*™ amplifier uses (4) rugged 572B tubes. Delivers 1300W PEP SSB and 1000W CW continuous output for about 65% of the price a full legal limit amplifier ..... **$1349.99**

## Super Legal Limit Amplifiers

- Cover 160-15M, including WARC bands
- Strong Stainless Steel Chassis
- Highly efficient *PeterDahl* tape wound Hypersil® Plate Transformer, up to 2500W
- Grid and Plate meters show drive, ALC, Power output and PEP Watts
- Dim: 18"h x 17"w x 10"d; Weight: 77 lbs.



**AL-1500** – Uses a single *Eimac*® 8877 Ceramic tube. Only 65W of drive power delivers full legal 1500W CW output. Time-delayed start protects the tube and over-current shut-off removes the drive if amplifier is mistuned..... **$2649.99**



**AL-1200** – Uses Ham radio's toughest tube, the *Eimac*® 3CX1200A7. It has a 50W control grid dissipation and can deliver more than 2500W two-tone output for 1/2 hour..... **$2299.99**

**AL-82** – Uses (2) 3-500Z tubes. Delivers 1500W output which is more than other 3-500Z linear models because their lighter weight power supplies can't use these tubes to their full potential ..... **$2299.99**

## AMERITRON ACCESSORIES

ATP-100/102

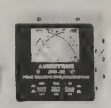
QSK-5

ARB-704

ICP-120/240

ADL-2500

ADL-1500


AWM-30

**ATP-100**
**Tuning Pulser** – Safely tune up RF power amplifiers. Prevents overheating, tube damage, power supply stress and component failure..... **$49.99**

**ATP-102**
**Deluxe Tuning Pulser** – Similar but with variable pulser and delay **$59.99**

**QSK-5**
**Pin diode T/R Switch** – Faster than a vacuum relay. Connects externally to HF RF power amplifiers. Handles 2.5 KW PEP/2 KW CW..... **$329.99**

**QSK-5PC** – PC board version **$249.99**

**CF-5** Cooling Fan – for QSK-5 **$39.99**

**ARB-704**
**Interface Buffer** – Prevents damage to radio's internal relay contacts resulting from keying amplifiers with too much control voltage, excessive current or voltage spikes on the relay control line. Compatible with transceivers that provide a ground on transmit. Use ARB-704I2 for IC-706 only .... each **$49.99**

**ICP-120/240**
**In-rush Current Protector** – Stops power-on in-rush current surge and absorbs momentary voltage spikes. Use ICP-120 for 110-120V; ICP-240 for 220-240V ..... each **$79.99**

**ADL-2500**
**Dry Dummy load** – Rated 2500W average power for 1 minute on, 10 minutes off, 300W continuous. Air cooled, low VSWR up to 60 MHz..... **$189.99**

**ADL-1500**
**Oil Filled Dummy Load** – Handles 1500W for 5 minutes. Usable with low VSWR up to 400 MHz. Includes oil and container as pictured ..... **$69.99**

**AWM-30**
**SWR/Wattmeter** – Perfect for making linear amplifier power measurements. A lighted Cross-needle meter to show true Peak or Average on 300W and 3000W ranges up to 30 MHz. Remote sensor. Uses 9V battery or 12VDC ..... **$149.99**

RCS-4

RCS-8V

RCS-10

**RCS-4**
**Remote Coax Switch** – Selects one of four outputs by supplying control voltages thru the coaxial cable Rated 1500W from 1.8 to 30 MHz.. **$129.99**

**RCS-8V**
**Remote Coax Switch** – Selects one of five outputs using one feedline and 6-wire control cable. Rated 1KW @ 150 MHz, usable to 250 MHz ..... **$139.99**

**RCS-8VN** Same as RCS-8V but N-type connectors instead of SO-239 **$149.99**

**RCS-10**
**Remote Coax Switch** – Selects one of eight outputs by supplying control voltages thru the coaxial cable Rated 1500W from 1.8 to 30 MHz.. **$159.99**

*Various "Plug & Play" Interface Cables for Ameritron Amps - See Price Guide*

## HF POWER AMPLIFIERS

**PW-1** HF/50 MHz All Band 1 KW Linear Amplifier – Frequency range: 160-15M/6M. Power output operating on 180-264V AC is 1000 PEP SSB (1000W CW/RTTY/SSTV) @ 100% duty cycle, QSK with 100W drive. Power drops to 500W PEP/500W at 90-132V AC input. Automatic band change; Built-in all band automatic antenna tuner; Automatic AC voltage selector. Current, voltage, temperature, high SWR and output power protection; Wide range ALC adjusts to almost any rig; Control head is detachable from main unit (shown); Built-in power supply. Two input connectors and four output connectors. Dim: (Amp) 14"w x 10.5"h x 14.5"d; 56 lbs ... **$4699.99**

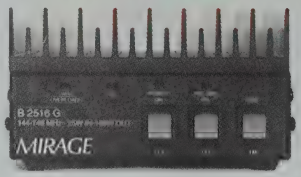
YAESU

**VL-1000/VP-1000 QUADRA SYSTEM**
**HF/50 MHz Linear Amplifier with Automatic Antenna Tuner and Switching Power Supply**
Solid-state design uses MRF-150 MOSFET devices in a four unit push-pull configuration to produce 1000W SSB/CW output (500W SSB/CW/FM on 6 meters) with 80W of drive. Frequency range: 160-15M, 6M amateur bands. Automatic bandswitching with Yaesu FT-1000, FT-1000MP, FT-1000MP MK-V, MK-V FIELD, FT-920, and the FT-9000 series. 16-bit Control CPU provides high speed antenna tuning with memory. The huge dot-matrix LCD provides amplifier-status information, including peak and average power output, voltage, current, and a panoramic SWR monitor, displaying "before tuning" and "after tuning" SWR information. Two input and four output antenna jacks output jacks for versatile equipment and antenna configurations.
Dim: (Amp) 16.25"w x 5.9"w x 17.7"d, 46.3 lbs. (PS) 16"w x 5.9"h x 15"d, 32.2 lbs ... **$3899.99**

SGC

**52-96** SG-500
SmartPower Cube™
Microprocessor
Controlled Linear Amp
For 500W operation in your Base station or Mobile. Designed for maximum reliability and for unattended operation where access is limited. Microprocessor control automatically selects band; adjusts amplifier input sensitivity; monitors all parameters for faults (heat, high VSWR, under voltage, etc.); automatic shutdown at fault. Front panel LED status indicators. The most advanced self-protection on the market. Covers 1.6 to 24MHz, rated at 500W PEP SSB and 500W CW (with optional fan) with 80W drive. Less than 1 cubic foot of space. Dim: 6.1"h x 11.4"w x 12.25"d; 21 lbs **$1249.99**

## MIRAGE




## VHF/UHF POWER AMPLIFIERS

**Models covering 6 Meters thru 70 cm for Base, Mobile, Repeater or ATV operation**

Rugged construction • 12V DC operation • FM mode (SSB/CW on some models) • Built-in 20dB gain GaAsFET Receive preamplifier • Overdrive and High temperature protection • Remote control capability • Various input and output levels

| Model | MHz | Max Input | Max Output | Amps | Pre-amp | Price |
|---|---|---|---|---|---|---|
| A-1015G | 50-52 | 1-15W | 150W | 23 | yes | $359.99 |
| B-34 | 144-148 | 8W | 35W | 4 | no | 79.99 |
| B-34G | 144-148 | 8W | 35W | 4 | yes | 99.99 |
| B-1018G | 144-148 | 0.2-15W | 160W | 25 | yes | 369.99 |
| B-2518G | 144-148 | 20-35W | 160W | 25 | yes | 299.99 |
| B-2530G | 144-148 | 10-35W | 300W | 48 | yes | 699.99 |
| B-5018G | 144-148 | 20-60W | 160W | 22 | yes | 299.99 |
| B-5030G | 144-148 | 0.5-50W | 300W | 48 | yes | 669.99 |
| B-310G | 144-148 | 0.25-8W | 100W | 15 | yes | 189.99 |
| B-320G | 144-148 | 2.5-50W | 200W | 25 | yes | 439.99 |
| BD-35 | 144/440 | 1-7W | 45/35W | 7 | no | 149.99 |
| C-22G | 222-225 | 2W | 20W | 5 | yes | 159.99 |
| C-211G | 222-225 | 2W | 110W | 20 | yes | 329.99 |
| C-1012G | 222-225 | 10W | 120W | 25 | yes | 329.99 |
| C-1022G | 222-225 | 10W | 220W | 40 | yes | 699.99 |
| C-2512G | 222-225 | 30W | 120W | 25 | yes | 309.99 |
| D-15N | 425-450 | 2W | 15W | 3 | no | 179.99 |
| D-26N | 430-450 | 2W | 60W | 12 | no | 269.99 |
| D-1010N | 430-450 | 10W | 100W | 15 | no | 379.99 |
| D-3010N | 430-450 | 30W | 100W | 20 | no | 349.99 |
| D-1010ATVN | 430ATV | 10W | 100W | 20 | no | 399.99 |

N = Type-N connectors

**More MIRAGE amps...**
**Continuous duty Repeater Amplifiers for 6, 2, 1-1/4 meters, 70 cm, 450 MHz & ATV.**
See the Price Guide under MIRAGE

### REMOTE HEAD

**RC-1** – Remote control Mirage amplifier functions: Power and Preamp On-Off, FM/SSB mode. Dim: 1.75" x 3.75" x 2.5". Includes 18 ft. control cable..... **$45.99**
**RC-2** – for B-XX18G series amplifiers.. **$45.99**

### DOCKING BOOSTER

**B-24G** – Slide in an HT with 0.5 to 8W output for an instant 50W Mobile or Base. station. Replaces HT battery with selectable voltages that adapt to most HTs. Built-in 18dB gain GaAsFET preamp with On-Off switch and LED indicator. Transmit LED. Place on dashboard or desk, or mount with the supplied tilting bracket. Uses 13.8 VDC @ 7A. Dim: 4.25"h x 3.35"w x 3.25"d..... **$109.99**

**See Price Guide under MIRAGE for available Handheld adapters for the B-24G**

## MIRAGE

### LOW NOISE GaAsFET RECEIVE PREAMPS

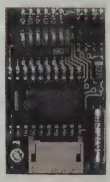
High gain ultra low noise GaAsFET preamps for boosting weak signals on VHF and UHF bands and compensating for feedline loss. Selectable gain prevents receiver inter mod. Provides 15 to 22 dB Gain with a Noise Figure of less than 0.8 dB. Installs in-line with automatic T/R switching up to 100 Watts. In-shack or mast mount models. Voltage: 12-15V DC.

**In-Shack Models – $129.99 each**
**KP-1/6M** – 50-54 MHz **KP-1/2M** – 144-148 MHz
**KP-1/440** – 430-450 MHz

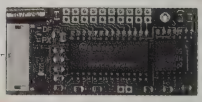
**Mast Mount Models – $179.99 each**
**KP-2/6M** – 50-54 MHz **KP-2/2M** – 144-148 MHz
**KP-2/440** – 430-450 MHz

COMMUNICATIONS SPECIALISTS, INC.

### TONE ENCODERS & DECODERS

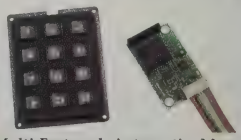


**SS-64** Programmable CTCSS Encoder – Super small for easy install in most HTs. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 0.66" x 1.08" x 0.21". 6–28 VDC ... **$28.99**



**TS-64DS** Field programmable CTCSS Encoder /Decoder – DIP switches for 64 EIA tones 33-254.1 Hz; 1.25" x 2" x 0.3"; 6–28 VDC .. **$57.99**

**TE-32** Multi-tone Encoder – Provides 32 tones direct access from the dial rotary switch to all EIA CTCSS tones from 67-203.5 Hz, allowing access to various repeaters. Great for mobile or test bench. Dim: 5.25" x 3.3" x 1.7"; 6-30 VDC..... **$49.99**



**ID-8** Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20VDC. Dim: 1.85" x 1.12" x 0.35"..... **$69.99**

**Wiring diagrams and lists of Fax-on Demand documents can be obtained from www.com-spec.com.**



AES
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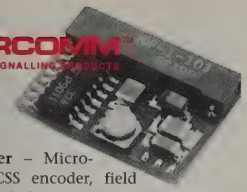
Browse Our Store On-Line at www.aesham.com

NORCOMM TONE SIGNALLING PRODUCTS

## TONE SIGNALLING



**NC-101 Encoder** – Micro-miniiniature CTCSS encoder, field tunable to any of the CTCSS tone frequencies between 67 Hz and 254 Hz. Requires 5 to 15VDC. Dim: 0.60"w x 0.80"l x 0.15"h..... **$21.99**

**NC-104 Programmable Encoder** – Sub-miniature field programmable CTCSS encoder unit for limited space. Provides standard 37 EIA CTCSS tones plus 69.37, 97.4 and 205.5 Hz. Requires 7 to 24VDC. Dim: 0.625"w x 0.80"l x 0.170"d..... **$26.99**

**NC-106 Programmable CTCSS Encoder/Decoder** A sub-miniature crystal-controlled digital unit. Field programmable with dip switches providing any one of the standard 37 CTCSS tones + 97.4 Hz. 6-24VDC. Dim: 0.85"w x 1.35"l x 0.28"h... **$62.99**

**NC-401 Touch-Tone® Decoder** – Unique micro-mini unit combining 2 distinct multi-addressable decoders for control of remote or local applications. Decodes all 16 DTMF characters with an address length of 1-14 characters and features E²PROM memory for storage of both primary and secondary codes, input/output functions, deadbeat disable and user outputs, plus default reset. Programming easily performed by means of a conventional DTMF encoder. 6-24VDC. Dim: 0.80" x 1.37" x 0.23" ..... **$62.99**

UM Unified Microsystems

XT-4 VK-64

**XT-4 CW Memory Keyer** – Designed for QRP, field day, mobile or any portable operation. Also goes well in the shack with smaller rigs. Speed range 8-45 WPM; (4) 100 character memories; positive keying output; 3.5mm input jack, RCA phono jack output; Paddle reverse for left or right-hand operation; Auto power save mode with flashing LED indicator engages after 30 minutes of inactivity. Uses 9V battery..... **$69.99**

**KC-4** – Cable set for XT-4 ..... **$9.99**

**VK-64 Combination CW/Voice Keyer** – Store and play back CQs, contest info, etc. in both CW and Voice. The Voice has four memories (up to 15 seconds each). The CW keyer does 10-45 WPM with 4 programmable memories of 300 characters each. Configure for: Iambic A/B keying; Weight; Side tone; Paddle reverse. Tune function; Auto repeat and 1/2 to 12-second delay. Run stand alone or control with PC/laptop through a 25-pin printer port. Works with major contest logging programs. Uses 12V wall power supply **$229.99**

**VKC-8 Cable** – Shielded audio cable semi-kit wired and tested except for microphone and transmitter connectors (8-pin) ..... **$24.99**

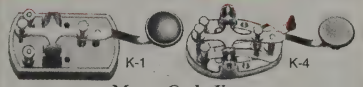
**Gift Certificates . . .**
available from all AES locations

AMECO

Code practice oscillator and Morse code monitor

Built-in speaker plus terminal connectors for headphones. Requires a 9V battery and code key.

**OCM-2W** Wired **$29.99** • **OCM-2K** Kit **$19.99**



K-1 K-4

Morse Code Keys

**K-1** – Low-cost general purpose key w/phenolic base, adjustable tension, contact spacing .. **$10.95**

**K-4R** – Deluxe high quality key. Polished brass base, shorting bar ..... **$17.95**

BENCHER, INC.

IAMBIC & SINGLE LEVER PADDLES

BY-1

Great paddles that are responsive, light to the touch with definitive yet subtle tactile feedback, friction free return, and perfect closure on every dot and dash. Includes gold-plated solid silver contract points and heavy non-skid base.

Iambic

**BY-1** – Black base/Chrome coponents **$109.99**

**BY-2** – Chrome base/Components ..... **$129.99**

**BY-4** – Black base/Gold Components.. **$169.99**

Single Lever

**ST-1** – Black base/Chrome Components **$109.99**

**ST-2** – Chrome base & Compnents ..... **$129.99**

RJ-1

RJ SERIES KEYS

Oil-impregnated bronze bearing pivot points for friction-free pivoting and wobble free vertical tracking. Operating comfort with the black Navy knob with removable skirt and stainless steel locking screws that allow individual adjustment for arm height, tension and contact spacing. Heavy metal base with anti-skid rubber feet.

**RJ-1** – Black base/Chrome components **$105.99**

**RJ-2** – Chrome Base & Components **$129.99**

NEW

IDIOM Press LOGIKEY

**K-5 Fully Iambic Keyer** – An improvement on the world-famous LOGIKEY K-3. It has an unmatched feature list, with the best operator interface available. New features include greater protection against voltage spikes, lightning, etc. All stainless hardware, internal volume control, updated enclosure design. Only 3 AAA cells will run the keyer for months, or it accepts 9-12 volts DC. Works perfectly with single-lever, non-iambic paddles. The K5 otherwise has too many features to list, but you'll find them at **http://www.idiompress.com/K5.html**. Dim: 4.25"w x 2.25"h x 4.75"d ..... **$149.99**

**HK-3 Hook-up kit for the K3** – Includes Paddle-to-Keyer cordset; RCA-to-RCA keyer output cable and 2.5 mm DC power plug cordset for 12V .... **$10.99**

VIBROPLEX®

**The Original Bug from 1904, is still made using tools similar to those used by inventor Horace Martin. Designed for 20-50+ WPM.**

**110 Standard** – Painted base/chrome top **$179.99**

**105 Deluxe** – Polished chrome base and top parts with fine jewel movements ..... **$209.99**

**100 Presentation** – Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements ..... **$269.99**

**090 Gold** – Plated base/chrome top.. **$309.99**

**Vibrokeyers:** Single lever paddle *(left)* initiates automatic dots and dashes of an electronic keyer. Iambic model *(right)* allows automatic dot/dash insertion.

Vibrokeyer

**120 Standard** – Blk base, chrome parts **$159.99**

**115 Deluxe** – Chrome base and top parts with jeweled movements ..... **$199.99**

**113 Gold** – 24K gold-plated base and chrome top parts with jeweled movements.... **$279.99**

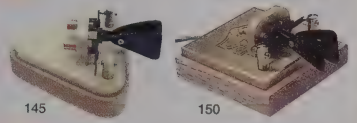
Iambic

**135 Standard** ..... **$159.99**

**130 Deluxe**..... **$199.99**

**125 Presentation** – 24K gold-plated top plate, chrome base with jeweled movements **$269.99**

**123 Gold** ..... **$279.99**



145 150

**145 Triangle Brass Racer Iambic** – Solid brass paddle & polished hardwood base ..... **$149.99**

**150 Square Brass Racer** – Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs..... **$149.99**

**Straight Keys** *(left)* Unique mechanical action, unlike any straight key ever manufactured.

**155 Standard**..... **$159.99**

**160 Deluxe**..... **$189.99**

**153 Gold** ..... **$279.99**

**Deluxe Double Keys** *(right)* Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.

**165 Straight key/Iambic** ..... **$349.99**

**170 Straight key/Vibrokeyer** ..... **$349.99**

# MFJ CODE PRACTICE READERS KEYERS

**557 Code Oscillator with Key** – Practice sending code anywhere. A Morse straight key on a non-skid heavy steel base. The oscillator has a built-in speaker, adjustable volume and tone. Uses 9V battery (not included) or 110VAC with MFJ-1312D ($14.99). Dim: 8.5"d x 2.25"h x 3.75"w ..... **$34.99**

**554 Code Practice Oscillator** – Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3 inch speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power LED, 1/4" key jack, 3.5mm external speaker and DC input jacks. Requires 12V DC. Metal enclosure. Dim: 4.25" x 1.5"h x 5"d **$79.99**

**550 Telegraph Key** ..... **$9.99**

**414 Professional Classroom Tutor** – Features include LCD readout, printer port and audio tape recording output. Build and save 3 custom sets for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port and open-end patch cable. Uses 12 VDC or 110 VAC with MFJ-1312D for $14.99. Dim: 8.5"w x 2.25"h x 6"d..... **$189.99**

**452 Super CW Keyboard** – A CW keyboard that includes a 2-line 16-character LCD display. Send effortless and accurate CW by just typing and watching the display, no computer required. Speed: 5–100WPM; Weight: 5–95%; Sidetone: 300–3000 Hz sidetone; Serial Numbers (0–9999); Buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC ..... **$129.99**

**462B MultiReader™** – Feed in audio from a receiver or transceiver, tune in CW, RTTY, ASCII or AMTOR (FEC) signals and read the auto decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes. AutoTrak™ feature for high-speed CW. An 8K memory for storage and convenient printer port. Requires 12VDC. Dim: 6.25"w x 2.5"h x 6.25"d ..... **$179.99**

**461 Pocket-Size Morse Code Reader™** No cables to hook-up and no other equipment needed. Simply hold the unit near your receiver and it instantly displays CW text in English! Automatic speed tracking and instant 140-character replay on a 32-character LCD. If desired, a serial port lets you display CW text on a monitor using a computer and terminal program. Connect directly to a receiver with optional cable when it's too noisy or CW is unwanted. Uses 9V battery (not included). Dim: 2.25"h x 3.25"w x 1"d, 5.5 oz..... **$79.99**

**5162 Receiver Cable** – Connects the 461 or the 462B to a radio's external 3.5mm jack ..... **$5.99**

**464 CW Reader With Built-In Keyer** – Plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for complete CW operation. Send and read at 5 to 99 WPM with automatic speed tracking. Menu operation; 2-line LCD shows "send and receive" text; Front panel speed and volume controls; 4 message memories; Type-ahead and read-again buffers; Adjustable weight and sidetone; Built-in speaker; Dim: 6.25"w x 2.5"h x 6.25"d. **$169.99**

**407D Deluxe Electronic Keyer** – Dot-dash memory, self completing dots and dashes and jam-proof spacing. Single, squeeze, or straight key functions. Front panel speed, weight, tone and volume, ON/OFF, and tune controls; Selectable auto or semi-automatic and A/B-type iambic keying Built-in speaker. uses 9V battery. Dim: 7"w x 2"h x 6"d.... **$69.99**

**401D Econo Keyer** – Similar to 407D except weight and tone controls are adjusted internally, no tune switch. Dim: 4"w x 1.75"h x 3.75"d ... **$49.99**

**434B Contest Voice Keyer™** – Call CQ, send your call and do contest exchanges in your own natural voice! Store in EEPROM, frequently used phrases like *'CQ Contest this is K9KHW, "You're 59"..."Grid is EN63"* and more! Record and play back five messages (75 seconds total) and repeat continuously with a 3–500 seconds delay. You can record and play back off-the-air signals and there's a jack for remote or computer control. Internal jumpers match Kenwood, Icom, Yaesu, Alinco rigs, using your station or built-in microphone for recording. Built-in speaker and amplifier lets you monitor stored messages. Accepts 8-pin modular or round microphone plugs. The MFJ-73 Remote Control Head ($29.99) allows out of the way operation. Use 9 Volt battery, 9-15 VDC or 110 VAC with MFJ-1312D, ($14.99). Dim: 6.5"w x 2.5"h x 6.5"d .....**$169.99**

**422D Keyer-Paddle Combo** – A *MFJ/Curtis* keyer™ in a compact package that fits on the Bencher iambic paddle. Adjustable weight and tone and has a front panel volume and speed controls (5-65 wpm). Built-in dot-dash memories, speaker, sidetone and semi-auto/tune modes. Keys grid block, cathode or solid state. Uses 9 volt battery or 110 VAC with MFJ-1312D ($14.99). Dim: 4"w x 2.25"h x 4.25"d.....**$169.99**

**422DX Keyer Only** – Install on your Bencher or MFJ 564 Iambic paddle ..... **$79.99**

**490 Menu/Memory Keyer/Bencher Paddle Combo** – A compact feature-rich keyer mounted on a Bencher iambic paddle. No complex sequences. Just press a button to select a menu (LED indicates active menu), then select a feature. Has 192 character (8K) memories divided into four soft sectors. Save messages. Select automatic, semi-automatic or bug or handkey modes. Select iambic A/B, Morse trainer, contest serial numbering. Side tone with built-in speaker and volume control. Adjustable CW speed 5 to 100 wpm. Recognizes special MARS characters. Keys direct or grid-block keying transmitters, solid state or tube rigs. Uses 9-volt battery or 110 VAC with MFJ-1312D ($14.99). Dim: 5"w x 3"h x 5.5"d..... **$199.99**

**490X Menu/Memory Keyer Only** – Same as MFJ-490 but without Bencher paddle..... **$99.99**

**492 Menu Driven Memory Keyer** – Same features and as the MFJ-490 but a stand alone unit without paddle. Uses 9-volt battery or 110 VAC with MFJ-1312D for $14.99. Dim: 6.5"w x 2.5"w x 6.25". **$99.99**

**495 Millennium CW Keyer** – A powerful keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display. Send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTT output, built-in speaker, sidetone; Iambic keyer with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode. Uses 9-volt battery or 110 VAC with MFJ-1312D ($14.99).
Dim: 6.25"w x 2.5"l x 6.25"d..... **$159.99**



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## LOW-PASS & HIGH-PASS FILTERS

For suppressing Television interference (TVI) from near by HF transmitters

**Low-pass filters** install in the transmission line between the transmitter and antenna or tuner. They are designed to allow signals below the cut-off frequency to pass through and attenuate signals above the cutoff frequency.

**High-pass filters** install at the TV set antenna terminals and allow signals above the cut-off frequency to pass through and attenuate signals below the cutoff frequency.

**HP-300T** 300 ohm High-Pass Filter – Sharp cutoff at 52 MHz with 70dB attenuation below 50 MHz. For use with TV twinlead ..... **$14.99**

**HP-75T** 75 ohm High-Pass Filter – For use with 75 ohm TV coaxial cable ..... **$14.99**

**YA-1** 52 Ohm Low-Pass Filter – Covers 1.8-29.7 MHz, handles 1.5KW continuous (5KW Peak. Ultimate attenuation: 80dB @ 54 MHz. Loss: < 0.2dB. Dim: 9.2"w x 2.5"h x 2.5"d..... **$85.99**

**LF-30A** 52 Ohm Low-Pass Filter – Covers 1.8-30 MHz, handles 1 KW. Ultimate attenuation: >90dB above 90 MHz. Loss: <0.5dB @ 30 MHz Dim: 9.6"w x 2"h x 1.5"d ..... **$64.99**

**704** 52 Ohm Low-Pass Filter - Covers 1.8-30 MHz, handles legal limit. Insertion Loss: <0.5 dB; Dim: 2.9" h x 2.9"w x 7.8"d ..... **$49.99**

**LP-30** Low 52 Ohm Low-Pass Filter – Covers 1.8-30 MHz, handles 1.5 KW. Up to –70dB harmonic attenuation ..... **$69.99**

**LP-2500** – Same, but 2.5KW rating... **$129.99**

**HPF-1** 300 ohm High-Pass Filter – High harmonic attenuation in the 52–550 MHz TV passband. 75 ohm balun and F connector.... **$24.99**

## DCI DIGITAL COMMUNICATIONS

### BANDPASS FILTERS

Install in transmission line between a 2 meter, 220 or 440 MHz rig and antenna to reduce strength of out-of-band interfering signals while allowing wanted signals to pass through at full strength. Eliminate squeals, squawks, beeps and strange voices from a UHF or VHF radio caused by intermodulation from strong, nearby pagers, police radio, etc. Effectively reduces spurious emissions on transmit. Hear desired signals even in crowded, urban centers. 2M/220 MHz uses four helical resonators, 440 MHz uses four 1/4-wave linear resonators, both with aperture coupling. VSWR 1.5:1; 200W power rating; Made of extruded aluminum, copper and brass. Dim: 12w"x 3"h x 5"d; 2 lb, 11oz.

**146-4H** – 144–148 MHz. Loss <1 dB; Selectivity: –57dB @ 136 MHz and –43dB @ 156 MHz. SO-239 silver-teflon connectors..... **$119.99**

**145-2H** – Same, but 144–146 MHz ..... **$119.99**

**146/444DB** – 144–148 / 438–450 MHz. Selectivity: –50dB @ 136 MHz, –40dB @ 156 MHz, –30dB @ 425 MHz, –25dB @ 465 MHz. SO-239 silver-teflon connectors ..... **$189.99**

**223.5-3H** – 222–225 MHz. Loss 1 dB; Selectivity: –33dB @ 213 MHz and –28dB @ 233 MHz. SO-239 silver-teflon connectors..... **$119.99**

**445-10C** – 440–450 MHz. Typical selectivity: –47dB @ 425 MHz, –50dB @ 456 MHz; Loss 1dB. Type-N silver-teflon-gold connectors..... **$139.99**

**435-10C** – Same, but 430–440 MHz ..... **$139.99**

**Upgrade to type-N connectors on 2m and 220 MHz models – add $10 to price. Special Order**

## FERRITE RFI KITS

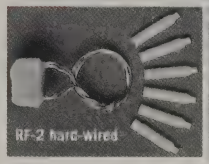
**701** RFI Free Choke Kit – Eliminate RFI problems by winding offending cables around an RFI suppressing toroid. Effective from 0.5-200 MHz. Separates into halves for easy winding of all types of cable – computer ribbon, coax, power cord, telephone, audio-video. Halves mount in snap-together plastic frame. Multiples can be stacked for more effect..... (Pack of 4) **$14.99**

## Palomar Engineers

**RFI-4** RF Interference Kit – A selection of ferrite toroids and beads to eliminate RFI from 1–1000 MHz. Contains: 12 beads with 0.2" holes for small wires and cables, 4 toroid (donut shaped) cores with 1/2" holes, 4 with 3/4" holes and 4 split beads (toroids cut in half so you can put them over cables without disconnecting). Two fit over RG-58 (1/4" hole) and two fit over RG-8 (1/2" hole). Includes a RFI tip sheet explaining the use of ferrites and how to use them to keep RF out of computers, stereos, VCRs, alarm systems, and telephones ..... **$25.99**

## K-COM

### TELEPHONE RF INTERFERENCE FILTERS



**Cure telephone RF interference in the most irritating cases even when dealing with transmitters with full legal power output. Use any number of filters with no adverse effect on telephone performance.**

**RF-1** – For single line equipment including wired or cordless phones, answering/fax machines, modems, etc. Uses standard modular connectors ..... **$16.99**

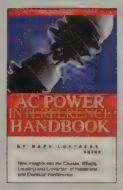
**RF-1/2-LINE** – For 2-line or multi-line, multi-station electronic key phone systems..... **$22.99**

**RF-1/COILED** – For use when RFI enters thru coiled telephone cord between base and handset .. **$22.99**

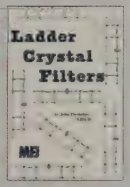
**RF-2** – Hard-wired, provides a wide range of installations optional to add RFI rejection at a variety of physical/electrical locations in the system; inside jacks, behind wall mounts, etc ..... **$10.99**

## Interference and Filter Publications

The ARRL RFI Book Loads of information for practical interference cures: Power line, Automotive, Television, Computers, Lamps, VCRs, Stereos, Intermod, Telephones. Latest regulations, suppliers, more. 235 pages. ARR 6834 **$24.95**



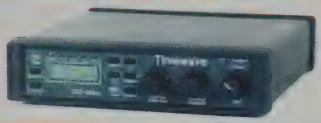

AC Power Interference Handbook – 2nd edition, revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of power-line and electrical interference. 18 chapters ... ARR 9055 **$29.95**




**Ferromagnetic-Core Design & Application Handbook** – The legendary textbook from the late Doug DeMaw, W1FB emphasizes the practical aspect of ferromagnetic core material. 256 pages ..... MFJ 3506 **$19.95**

**Ladder Crystal Filters** – A handy reference guide for the development and construction of Ladder Crystal Filters by John Pivnichny, N2DCH. 134 pages ..... MFJ 3509 **$19.95**

## TIMEWAVE TECHNOLOGY INC.



**DSP-599ZX Noise Filter** – Digital Signal Processing provides superior reduction of QRM and QRN. Examines and measures signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in clarity to fluttery or distorted SSB signals. Filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10 Hz to 600 Hz; Center frequencies 200-2150 Hz, wider filters allow easy tuning and listening to multiple CW signals; Data filters: RTTY, AMTOR, PacTOR, G-TOR™, HF Packet, SSTV, WeFAX, SITOR and CLOVER; Test instrument mode provides audio sine wave generator, audio millivoltmeter and two-tone audio generator for maintenance and set-up of radio audio circuits..... **$436.99**

**ANC-4 Antenna Noise Canceller and Diversity Combiner** – Effective with any transceiver (250W max.) or receiver from 500 kHz– 80 MHz. Reduces or eliminates power line, computer and TV noise by cancelling it before it affects the receiver AGC circuits. Connects between your antenna and radio with a second antenna acting as a noise pickup. Controls adjust signal phase and magnitude from the two antennas to effect noise cancellation. It also can operate as an active antenna using a the noise antenna and noise gain control. And, it can be used as a diversity combiner to pick up enhance weak signals or null interfering signals. 11–16V DC @ 300 ma. Dim: 1.7"h x 6"w x 4.3"d; 2 lbs..... **$209.99**

**784B Deluxe Tunable DSP Audio Filter** – Can simultaneously eliminate heterodynes, reduce noise and interference in nearly any mode. Provides five tunable DSP filters, plus ten programmable filters. An Automatic Notch eliminates heterodynes and Adaptive Noise Reduction reduces fatigue. Highpass/lowpass and tunable bandpass filters combine to dig out weak and difficult signals. Uses 12 VDC or 110V with MFJ-1312D. Dim: 9.5"w x 2.5"h x 6"d..... **$229.99**

*See other DSP Noise Reduction devices by GAP and SGC shown elsewhere in this catalog.*

## MFJ Computer SOUND CARD to RIG Interfaces

### Connect the Sound Card in your Computer to your Rig and operate the Digital Modes: CW, RTTY, SSTV, PSK-31, packet, APRS, AMTOR, High Speed Meteor Scatter, others

MFJ-1279

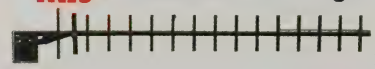
**1275/1275M Sound Card Interface** – Connect between a transceiver and computer and operate PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW, plus contest voice keying, contest memory keyer, etc. Internal jumpers set up for any radio. Includes AC power supply, all cables and a CD with a collection popular digital mode software. Use model **1275** for 8-pin round microphone plug or model **1275M** for 8-pin modular plug (RJ-45)..... each **$99.99**

**1279 Super Sound Card Interface** – Has all of the features of the MFJ-1275 above, plus: an Auxiliary input jack to switch the sound card to some other device. No more plugging and unplugging. Direct CW/FSK keying jack, headphone jack (use stereo headphones), also turns off external speaker. Plug in a footswitch or other for PTT switch when not using VOX. Plug and play, includes CD with a selection of digital mode software, RS-232 and audio cables, and AC power supply. Use model **1279** for 8-pin round microphone plug or model **1279M** for 8-pin modular (RJ-45) microphone plug ..... each **$129.99**

**1273B Sound Card Interface** – A basic plug-and-play interface for the digital modes. Has jacks for sound card, radio, speaker and RS-232 (no mic jack or switch). Includes RS-232, audio and mic cables and software. No external power needed. Use model **1273B** for 8-pin round microphone plug, or model **1273BM** for 8-pin modular (RJ-45) microphone plug. ea. **$59.99**

**1272B TNC/Microphone Switch** – Switch between your TNC and 8-pin microphone by pushing a button. For microphones with 8-pin modular (RJ-45) plug, use model **1272M**..... each **$39.99**

## MFJ 16-Element Wi-Fi Yagi



**1800** – Covers 2.4 GHz with 15dBi gain to greatly extend the range of 802.11b/g Wi-Fi signals up to 32 times over an isotropic radiator. Turns an unusable or slow Wi-Fi signal into a solid, fast connection. The highly directional pattern minimizes the possibility of interfering signals. Works with any 802.11b/g or 2.4 GHz device. Unique mount has a built-in standard N-type female connector and screw mount for standard tripod. There are rear holes for wall mounting and bottom holes for desk or shelf mounting. Orientates for either horizontal or vertical polarization. Precision punched aluminum construction. Boom length: 18 inches, Weight: only 2.9 oz..... **$29.99**

**5606SR** – 6 ft. cable with N type male connector on one end and reverse SMA connector on the other. Connect your MFJ-1800 to any 802.11b/g device with a reverse SMA connector ..... **$24.99**

## AOR® Digital Voice Interfaces

**ARD-9800 Digital Voice and Image Interface** Use your conventional SSB transceiver for Digital Voice, Data (3600 bps) and Images while maintaining analog capabilities. No modifications, simply plug it in to the microphone jack, operates with transceiver in SSB mode. An automatic voice signal detector recognizes received signal as analog or digital, automatically switching to the appropriate mode. Uses Open Digital Protocol which is permitted on US Ham bands. Built-in speaker and video output connector which allows external TV monitor viewing. Includes PTT hand microphone, cables and manual. Requires 10-16VDC. Dim: 3.94"w x 1.26"h x 6.14"d ..... **$549.99**

**ARD-9000 Digital SSB Interface** – Like the ARD-9800 it works with any existing SSB transceiver without modifications to operate digitally where background noise and static are virtually non-existant and SSB audio is near FM quality. Its Digital Voice only and does not include Data and Images like the ARD-9800; it's also less expensive. However, the ARD-9000 and ARD-9800 are compatible with each other and both automatically detect digital signals and decode them while allowing analog signals to pass through. Easily shifts between digital and analog operation. Comes with PTT hand microphone, speaker cable, DC power cable, magnetic mount base and 8-pin microphone plug. It's ready to make the simple connection to your transceiver's microphone input and speaker output. Dim: 2.8"w x 1.3"h x 3.9"d..... **$339.99**

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# West Mountain Radio

## RIGblaster

The easiest way to connect a radio to a PC to operate old or new, analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, PC, and appropriate software take the place of old expensive adapters, TNC's, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of a old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, comes with an up to date CD collection of ham radio operating software, all the cables and power supply you need to get on the air. Five models to choose from for your operating needs. Use with any modern computer and radio with a matching mic connector.

**RB/PR/C RIGblaster Pro** – The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK, CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with computer and a radio. 8-pin and RJ45 radios as supplied ..... **$249.99**

**RB/PL/C RIGblaster PLUS** – Run all sound card modes with fully automatic operation with your mic. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output. 8-pin and RJ45 radios as supplied..... **$129.99**

**RB/NO/CU RIGblaster Nomic 8-pin/RJ-45** Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an Internet remote link. Unplug your mic. whenever you wish to use sound card software. 8-pin and RJ-45 radios as supplied..... **$69.99**

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# Kantronics

## MULTI-MODE DATA CONTROLLERS

**KPC-3 Plus/128** – 1200 bps port; Packet, GPS/APRS, Host, KISS and WEFAX modes, use with EMWIN; Personal Mailbox (PBS) now supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, expandable with optional 512k RAM..... **$198.99**

**9612 Plus/128** – 1200 bps port and second port of 4800 – 38400 bps; Most modes/capabilities of the KPC-3 Plus and POCSAG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability..... **$388.99**

**KAM 98** – Single port multimode TNC for HF and VHF use; Packet, GPS/APRS, Host, KISS, WEFAX, CW, RTTY, AMTOR, PACTOR, G-TOR®, Free signal detection for HF email, A/D inputs/TTL outputs; HC11 for more processing power to accommodate future upgrades; Wider range of speeds; use 1200 bps packet on 10 meters..... Closeout **$369.99**

**KAM XL Multi-Mode DSP Controller** – Kantronics third generation multimode TNC, a state-of-the-art design giving operations on HF, VHF, and UHF, while supporting DSP modems and popular new modes of operation; Packet 300/1200 bps; G-TOR; PACTOR I; AMTOR ARQ (FEC, SELFEC, CCIR 476 and 625); PSK31; RTTY; NAVTEX/AMTEX; ASCII; WEFAX; CW; Dual-port mailbox; Remote SYSOP access; GPS NMEA-0183 compatible; Kantronics Host Mode; KISS..... **$409.99**

## Get the Right Answers...

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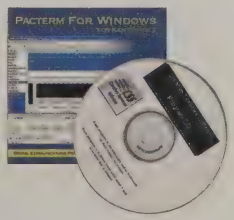
# TIMEWAVE TECHNOLOGY INC.

**PK-232/PSK Multimode Data Controller** – The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filters, 100 Hz CW filter and adaptive PACTOR filters. Weak signals pop through noise and interference bounces off the filters for cleaner copy than old analog filters. Supports new sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set, in addition to Timewave's on-line and telephone support. Requires 11-16V DC @ 800 ma. Dim: 8.25"d x 2.5"h; 3 lbs..... **$531.99**

**PK-96/100K 9600/1200 packet TNC** – 9600 and 1200 bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP, TheNet and NetRom; Separate external TX for 9600/1200 bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and MAC programs available; Requires 12V DC. 128K RAM. Dim: 6.25"w x 7.5"d x 1.375"h; 1.25 lbs.. **$219.99**

**AC-5 120V Power Supply** – Provides 13.8VDC @ 1.7A for the DSP-599zx, PK-232/DSP, DSP-2232, DSP-1232. DSP-232, PK-900, etc..... **$22.99**

CSS Creative Services Software




**PKTERM 3.0 and PACTERM 3.0 for Windows** – The latest CSS 32-bit terminal software for Timewave/AEA and Kantronics TNCs and computer soundcard interfaces. True multi-tasking in Windows using the standard Windows interface for ease of use. Operates the digital modes (PSK-3, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF/HF Packet) and works with single or dual port TNCs or with computer's soundcard and interface. Requires Timewave/AEA host mode or Kantronics TNC host mode for TNC interface. For soundcard-only mode use any of the popular soundcard interfaces like HamHub, RIGblaster or MFJ 1275/79. Easy logging with built-in logbook feature. CD ROM.

**PACTERM FOR WI** – Kantronics TNCs **$99.99**

**PKTERM FOR WIN** – Timewave/AEA PK-12, 96 and 232 TNCs..... **$99.99**

# HAL COMMUNICATIONS CORP.

**DXP-38**

## External DSP HF Radio Modem

Operates:
PACTOR / RTTY / ASCII
AMTOR / CLOVER II **$395.99**
Terminal Software Included

*More info on DXP-38 at: www.halcom.com*

**RTTY-1 Tuning Indicator**

Easy to use, very accurate. Works with any FSK radio modem. Crossed LED bars show correct tuning for FSK modes including Baudot Teletype (RTTY), ASCII Teletype, AMTOR, SITOR, P-Mode, HF Packet. Filters: 2125 Hz (Mark), 2295 Hz (Space); Requires +9V-18V DC @ 160 ma. Dim: 5.5"w x 3.75"h x 1.25"d; 0.5 lb..... **$99.99**

## KOSS

**QZ/5 Passive Noise Reduction** – Isolates listener from noise sources like car and jet engines. Ideal for the race track and metal detection. Unique headstrap, velcro design allows for secure fit and immobilization. 60Ω impedance; 102dB SPL/1mW sensitivity; 40 to 20,000 Hz sensitivity; Volume control and Stereo/Mono switch; Single entry, 8 ft. coiled cord with 3.5mm plug; 15 oz ..... **$49.99**

**QZ/50 Revolutionary Active Noise Reduction** Reduces harmful and annoying low frequency sounds in noisy environments. Behind-the-head design provides comfort during extended wearing. Dynamic element, 30 to 20,000 Hz; 32Ω impedance; 98dB sensitivity; Single entry 8 ft. cord, with 3.5mm plug; Uses AAA batteries; 2.5 oz .... **$49.99**

**QZ/99 Passive Noise Reduction stereophone with Mono/Stereo Switch** – Frequency response: 40 to 20,000 Hz; Coiled, single entry, 8 ft. cord with 3.5mm and 6.4mm plugs; Sensitivity: 102dB SPL/1mW; Impedance: 60Ω; 15 oz..... **$59.99**

**QZ/2000 Noise Reduction Stereophone** – The revolutionary Active Noise Reduction system reduces harmful or annoying low frequencies >15dB SPL from 40-200 Hz, average 10dB SPL from 30 to 1000 Hz. Response: 15-20,000 Hz response with 101 dB SPL/1mW sensitivity; 5kΩ impedance; Straight, dual entry, 4 ft. cord; Control case and collapsible stereophone; Adjustable headband; Input jack for audio play-through and 2-prong adapter for in-flight use; Includes 2 AA's; 2.3 oz ..... **$149.99**

**KTX/8 Portable Stereophone** – Dynamic element for extended frequency response from 40 to 20,000 Hz; Foam ear cushions for open, hear-through sound; Volume control on the cord for easy level adjustment; Collapsible headband design for protective storage and maximum portability; Reliable "L" plug for improved durability and reliability; Straight, single entry 4 ft.cord .. **$14.99**

**Y-88** "Y" Cord – Delivers dual stereophone connection from a single sound source. Reliable "L" plug for improved reliability and durability. **$4.99**

## KENWOOD

**HS-5 Deluxe Headphones** – Specifically designed for communications. Provides a natural sound and pads eliminate pressure permitting long hours of fatigue free listening. To increase the volume level when using in a noisy room or for privacy, you can replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug.. Impedance: 8; Power: 200mW @ 1000 Hz max. input; Response: 150-4000 Hz; 13 oz..... **$79.99**

**HS-6 Lightweight Headphones** – Response: 100 to 10,000 Hz; Impedance: 12.5; 6 ft. straight cord with 1/4 in. phone plug; weighs 4 oz..... **$59.99**

## YAESU

**YH-77STA**
**Stereo Headphones** – Impedance: 35 ohms; 4 ft. straight cord with 3.5mm plug and 1/4 in. phone plug adapter; weighs 4.4 oz..... **$59.99**

## Headsets/Boom Microphones

**For Heil prices check Price Guide**

**288 Deluxe Headset Microphone** – Lightweight, comfortable for **Yaesu**, **Icom**, and **Kenwood** units. Superb transmit audio, and earphone tonal quality. Foam covered microphone element is attached to headset with a flexible rubber boom allowing proper positioning. PTT switch on the 6 ft. cord, hold or attach to clothing ..... (specify radio) **$24.99**

**292Y Featherweight™ Earphone/Microphone** Has an earbud earphone and a tiny thumb-sized microphone/PTT switch that's built right into the 4 ft. cord. For Icom Q7A, Yaesu FT-10R, FT-40R, FT-50R and VX series ..... **$17.99**

**297 Desk Microphone** A sensitive condenser mic element coupled with a low-noise amplifier. Speech tailored; select *SSB Mode* for smooth, articulate DX or Full-range Mode for clear FM or AM. Flexible microphone boom, momentary and locking PTT switch. On-the-air LED indicator, frequency up/down switch. Requires two AA batteries. Dim: 4"w x 1.25"h x 6"d (base)..... **$69.99**

**5397 8-Pin Adapters for 297** – Available for Yaesu, Icom and Kenwood units... (specify radio) **$15.99**

**295 Mini Speaker/Microphone** – Plugs into popular Yaesu, Icom and Kenwood HTs. A non-directional electret element provides great audio quality, LED shows transmit ..... (specify radio) **$15.99**

**392B Headphones** – Perfect for Amateur and Shortwave listening. Superbly padded headband and ear cushions and only 8 oz. for comfort. High-performance drivers with full 100 – 24,000 Hz response provide enhanced sound and speech fidelity. Earphones have individual volume and tone controls. Includes a 9 ft. cord with gold-plated plug and 1/4" adapter..... **$19.99**

**HF-24RS Scanner Headphones** – Designed specifically for racing fans. Listen to driver to pit conversations with reduced noise. Snug fit, cushioned headband and comfort fit cushions allow hearing action over crowd and engine noise. Dual volume control to maximize hearing levels; Includes 3.5mm, plug with a 10 ft. coiled cord ..... **$19.99**

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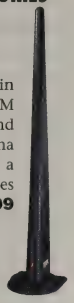
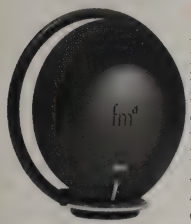
## STEREO ANTENNAS



**TOWER** AM-FM Tower Antenna – Built-in amplifier with gain control improves AM and FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from broadcast transmitter..... **$24.99**

**ADVANTAGE** External AM Antenna – Passive, adjustable 530-1600 kHz AM antenna that improves reception over built-in loops. Used unattached, next to the radio. Position for best reception, then rotate tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, connect directly to an external AM antenna input..... **$49.99**



**PI-B** Powered Indoor AM/FM Antenna – Improves FM (88-108 MHz) reception by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier. An adjustable position AM loop enhances broadcast band reception. Impedance: (FM) 75/300Ω with supplied matching transformer), (AM) 300Ω. FM Gain control. AC adapter included. Dim: 6"h x 6"w x 1.5"d. **$49.99**

## TV ANTENNAS

**TV-42** Amplified Clip-On Antenna – Attaches quickly to any 18 in. satellite dish and adds reception of all local VHF/UHF channels (2-to 83) and FM broadcast. (88 to 108 MHz). Built-in internal 10dB gain amplifier minimizes signal loss, allowing distribution to multiple TV's. For Dual-LNB dishes, it has two built-in duplexers, providing more than one TV with DSS and VHF/UHF signals. Powered thru the cable by a DSS receiver. Durable, powder-coated element and weather-proof amplifier housing. Dim: 10.25"h x 21.25"w x 3.5"d..... **$49.99**

**TV-55** Amplified Out/Indoor TV Antenna – Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF and VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amplifier (switch in or out for best reception). Mounts in or outdoors. Includes a AC adapter and mounting hardware. Dim: 46"w x 3.5"h x 2.25"d..... **$99.99**

**HDTV-1** Indoor UHF/VHF/HDTV Antenna Utilizes long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts. Tuned for optimum reception – high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5"w x 9.1"h x 16.5"d; 42" high with dipoles extended.... **$39.99**

**MOD-41** RF Modulator – Connect up to four A/V sources to any TV with no available A/V input jacks. Similar to VS-MOD4 below, without S-Video jacks or IR remote. Dim: 6.5"w x 2"h x 4.25"d ... **$39.99**

**VS4-MOD+** RF Modulator – Allows connections of multiple A/V components to a TV with no available A/V (RCA) input jacks. Provides inputs for up to four A/V sources (video games, DVDs, PVRs, VCRs, satellite receivers and camcorders). Converts A/V sources to VHF for viewing on channel 3 or 4 on any TV. Compatible with your IR remote control to remotely switch between A/V sources. Has "F-type" antenna/cable inputs and RCA/S-Video input/output jacks. Dim: 9.75"w x 2"h x 5"d. AC wall adapter included ..... **$49.99**

**VR-1** TV Volume Regulator – Delivers a consistent audio level during commercial breaks, while channel surfing or changing between A/V sources. Advanced DSP automatically adjusts sound levels while noise reduction reduces any 'hiss' present in audio and articulates quiet scenes to a level that you can enjoy. Simply plug and play, one time installation. Dim: 3.18"w x 3.87"h x 1.43"d ..... **$49.99**

**TA-25** Eagle Aspen™ Distribution Amplifier
Covers VHF/UHF TV and FM (54 to 890 MHz). Low noise, 25dB gain, 75Ω Switchable FM trap. Lightning protection. Dim: 6"w x 3"h x 1.75"d; 117VAC (4.5W)..... **$19.99**

**ANT-1020** VHF/UHF/FM Indoor Antenna
Clean, contemporary design with no-scuff pad to protect cabinet tops. Retractable and adjustable 39-in. elements and UHF loop. Standard 75Ω hook-up cable with "F" connector installed ..... **$19.99**

**LF-30S** Leapfrog WaveMaster 30 Transmitter/Receiver System – An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of A/V signals from one source, such as a TV with satellite or DVD player, to another within your home. Transmits a 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remote to control the system. Built-in modulator ensures connection to old and new TV's. Dim: 1.5"h x 7"w x 4.8"d ..... **$99.99**

**LF-IRX** Leap Frog Remote Control Range Extender – Increases range capability of infrared remote controls. Provides the power to operate A/V components through walls and floors up to 100 ft. Operates on 418 MHz for wireless install. Simply plug base in near controllable unit, then plug the receiver in remote location. Cables and AC adapters included. Dim: 5"h x 2.5"w x 4"d..... **$39.99**

velleman inc.

**AVW-089** 3-Channel Audio/Video Switcher
Accepts audio (left/right) and video input from 3 sources switchable to a single output..... **$8.99**

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## TV ANTENNAS

**PROSTAR® 1000 VHF/UHF/FM Antennas** Features die-cut impedance correlator that allows close spacing of antenna elements. Manufactured from high tensile aluminum for a strong, compact antenna that will better withstand strong winds and ice loading. Protected with polymer finish.

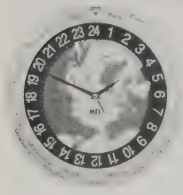
**PR-7010** Metropolitan – 22 active elements (9 VHF, 13 UHF); 66.5" boom ..... **$49.99**

**PR-7032** Far Suburban – 33 active elements (13 VHF, 20 UHF); 103.25" boom ..... **$79.99**

**PR-7042** Fringe *(top)* – 43 active elements (17 VHF, 26 UHF); 149.75" boom..... **$119.99**

## MFJ CLOCKS

**105C** 24 Hour Quartz Wall Clock – Black, 10 in. diameter face, sweep second hand. Uses one "AA" battery..... **$19.99**



**115** WORLD Map 24 hour Quartz Wall Clock Set it to GMT and you'll know what time it is in designated areas of the world any time of day. Major cities outline the trim of the 12 in. diameter. Uses one "AA" battery (not included)... **$24.99**

**125** DXer's Dream 24-hour Quartz Wall Clock 12 in. diameter face shows 24-hour format with smaller day, date and 12 hour indicators. All dials set independently as desired. Uses a single "AA" battery..... **$29.99**

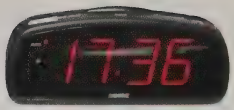
**Small 24-Hour Clocks** – A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

**107B** *(left)* **Single** – 2.25"w x 1"h x 2"d ..... **$9.99**
**108B** *(right)* **Dual** – 4.25"w x 1"h x 2"d.... **$19.99**

**112B** DX'ers World Map Clock – Shows time at any QTH throughout the world on an attractive backlit LCD world map. Also shows day, month, date and year. Select 12 or 24 hour time, daylight saving time. Dim: 4.25"w x 3.3"h x 2.25"d ..... **$24.99**

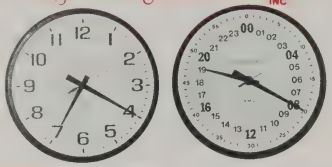
**118** Jumbo LCD™ 24/12-hour Clock 1.25 in. high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calender and flip stand. Uses one "AAA" battery.
Dim: 5.75"h x 3.375"w x 0.5"d..... **$24.99**

**123** Eternity Atomic Clock™ Solar powered and automatic time set by radio signals received from WWVB. Large (6.75"w x 2"h) LCD display. Selectable 12/24 hour time format, digital calender. Ordinary room light powers the solar cells and also replenishes a built-in rechargeable battery; also uses (2) "AAA" batteries (not included) for back-up power. Dim: 9"w x 3.5"h ..... **$79.99**



**113** 12/24 Hour Desk Clock – Switchable 12/24 hour display; 9-minute ID timer; Alarm function; 9V battery back-up for power failures; 110 VAC, 60Hz. Dim: 9"w x 4"h x 2.5"d ..... **$19.99**

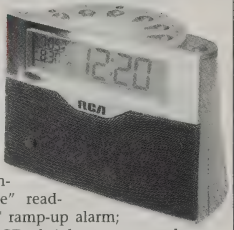
## Benjamin Michael Industries INC



**973A** – Battery operated 24-hour quartz controlled clock with sweep-second hand. The 12 in. dial allows excellent visibility. Black textured case and glass crystal. Operates on one "AA" battery Dim: 14" dia. x 1.75"d..... **$49.99**

**972AD** – Same but 12/24 hour dial ..... **$27.99**

## RCA CLOCK RADIO



**RP-3710** Dual Wake Digital Tuning AM/ FM Clock Radio LED display indicates two independent "wake time" readouts. Graduwake™ ramp-up alarm; Large, backlit LCD, brightness control; Snooze; 11 presets; Sleep to one station, wake to another; 9V back-up battery (not included) holds time and alarm settings in memory for 8 hours. Dim: 5.25"w x 4"h x 3.75"d ..... **$24.99**

The **Sticky Pad** holds objects in place on your vehicle dash. No adhesives or magnets. The back of the pad allows it to stay anywhere you place it while also being movable. Durable, reusable.

**STI 13810** – Dim: 7.25 in. x 4.13 in..... **$5.99**
**STI 13820** – Dim: 8.75 in. x 6.875 in..... **$9.99**

## CSI CONNECT SYSTEMS INC.

### INTERCONNECTS

**Fully automatic interface between an FM base radio and phone line to initiate and receive phone calls on a mobile or HT. Each contains powerful, microprocessor-controlled features such as 90 memory speed dialer, redial, built-in programming keyboard and digital readout, remote base mode, regenerated tone or pulse dialout, CW ID and toll restrict.**

**CS-800 Full Duplex Interconnect** – Operates full or semi-duplex and also has a built-in repeater controller. Simply connects to transceiver mic and speaker jacks. FCC and DOC approved. 12-15 VDC. Dim: 7.875"w x 7.5"d x 2"h; 2.5 lbs ..... **$369.99**

**CS-900 Control Station Simplex Interconnect** For use with any simplex transceiver. Also use thru remotely located repeaters (from base) for added range. Digital voice delay standard. Connects to mic and speaker jacks of simplex transceiver. FCC and DOC approved. (Transceiver switching speed does not affect performance) 12-15VDC.
Dim: 7.9"w x 7.5"d x 2"h; 2.5 lbs..... **$369.99**

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## BUSHNELL

Bushnell makes it easy to accurately measure speed with the Velocity™ speed gun. Very easy to use with its point-and-shoot operation. The Velocity™ speed gun boasts ±1.0mph accuracy. The Velocity™ can track the speed of a ball from 100 feet. It's the ideal tool for tracking everything from race cars to pitching speeds. Velocity™ gun has a 6–110mph range for baseball, softball and tennis. It also has a 6–200mph range for auto racing.

**10-1911 Velocity™ Speed Gun** – Easy-to-use, point and shoot pistol grip; Large, clear LCD display; Displays fastest speed once trigger is released; ± 1 mph accuracy; Operates on two "C" batteries.
Dim: 4.3" x 8.4" x 6"; 13 oz..... **$99.99**

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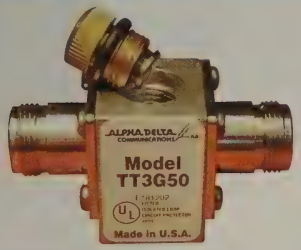
## Effective Atmospheric Surge Voltage Protection

**Dangerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand; so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your hamshack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage … and ALPHA DELTA has the answer!**

**Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. But, even as effective as these devices are, you still need to do a good job of proper grounding as outlined in the ARRL Handbook, etc.**

## Lightning Surge/EMI Protectors




**UL LISTED** – Certified protection for your equipment from lightning and static charges much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ – two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you are running control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru, instead of having to "wire around" as with some other DC-blocked designs.

All models are completely weather proofed by the use of O-ring seals and all hardware is stainless steel.

**Wide Frequency Range:** DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

**Low Insertion Loss:** 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

**Models:**

**ATT3G50**
0-3000 MHz; 200W; N Female ..... **$59.99**

**ATT3G50-HP**
0-3000 MHz; 2000W; N Female ..... **$59.99**

**ATT3G50U**
0-500 MHz; 200W; UHF (SO-239) ..... **$49.99**

**ATT3G50U-HP**
0-500 MHz; 2000W; UHF (SO-239) ..... **$49.99**

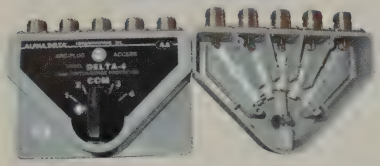
**Replacement Arc-Plug Cartridges**

**ATT**/3G50 for ATT3G50 or ATT3G50U ... **$14.99**

**ATT-HP**/3G50HP for ATT3G50-HP and ATT3G50U-HP ..... **$14.99**

More Information & Specifications for models on this page, and the new Alpha Delta OCF* Off Center Fed Antenna, go to: *OCF not sold by AES
**www.alphadeltacom.com**

## Lightning Surge Protected Coaxial Switches




- High Quality custom design featuring a rugged Cast Aluminum Housing.
- Constant impedance micro-strip cavities that provide very low-loss and high isolation through the UHF frequencies
- A solid positive detent roller bearing switch snaps positively into each position.
- An Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection. If needed, it is easily replaced from the front without disassembly.
- Automatic grounding of the unused antennas to reduce antenna interaction, noise and the effects of static charges and lightning.
- Rated for Full Legal power.

**Models:**

**DELTA-2** – 2-position, with SO-239 connectors and rated for operation up to 500 MHz ..... **$49.99**

**DELTA-2/N** – 2-position, with N-type connectors, rated for operation up to 1.3 GHz ..... **$64.99**

**DELTA-4** – 4-position, with SO-239 connectors, rated for operation up to 500 MHz ..... **$79.99**

**DELTA-4/N** – 4-position, with N-type connectors, rated for operation up to 1.3 GHz ..... **$89.99**

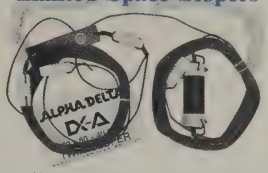
## Antenna Insulator Kit with Surge Protection

**DELTA-C** – A center insulator and two end insulators. Use for dipoles and wire antenna using either coaxial cable or balanced feed line. Rugged – highest quality, made from an virtually unbreakable UV/RF resistant material. Rated to handle full legal power. Stainless steel hardware is used in the center insulator, and all connections are hard soldered. An easily replaceable built-in Arc-Plug® in the center insulator provides surge protection from lightning and static charges. ..... **$29.99**

**DELTA-CIN** – End Insulator only ..... each **$1.99**

**SEP** – Replacement Arc-Plug® cartridge . **$15.99**

## Limited Space Slopers




- Proven 1/4-wave sloper DX Performance.
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50 ohm coaxial feed, no tuner required. See **www.alphadeltacom.com** for sloper installation.

**DX-A** – A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an Inverted-Vee. Legs are 67 ft. and 55 ft. long..... **$70.99**

**DX-B** – A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Installs like 1/2 of an Inverted V. Convenient limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above ground ... **$80.99**

## Shortened Multibanders

- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated Full Power.
- Direct 50Ω coaxial feed, no tuner required except for extended frequency coverage.
- Factory assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Uses a DELTA-C Static Protected center insulator and DELTA-CIN end insulators.
- Install Horizontally as an Inverted-V.

**DX-CC** – 80-40-20-15-10M, 82 ft. long .. **$130.99**

**DX-DD** – 80-40M, 82 ft. long ..... **$100.99**

**DX-EE** – 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long ..... **$110.99**

**DX-LB** – 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Full band coverage using a wide range antenna tuner ..... **$130.99**

**DX-LB PLUS** – Same as DX-LB above, but adds 20-10M with parallel wires ..... **$160.99**

## Full-Size Monoband Dipoles

- 50Ω coax feed, no traps, handles Full Power
- Install Horizontally or as an Inverted V
- Rugged, full-size performance
- Factory assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.

**DX-80** – 75/80 meters, 134 ft. long ..... **$58.99**

**DX-40** – 40 meters, 67 ft. long ..... **$48.99**

**DX-20** – 20 meters, 34 ft. long ..... **$48.99**

# THE SMILEY ANTENNA CO.

## HAND TUNED ANTENNAS FOR HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at band center under normal operating conditions (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a neoprene heat-shrink coating applied for strength and endurance. All have BNC connectors.

**TS** Thin Stick – 1/4-wave telescoping dual band antenna for 144 and 220 MHz bands..... **$16.99**

**SS-II** Super Stick II *(A)* – 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended. Usable fully collapsed, or one section 1/4 wave. 54" extended, 10" collapsed..... **$19.99**

**SS-II/COMBO** Super Stick II Combo – Same as above, but includes a 2m stubby duck..... **$29.99**

**5/8 SLD-2** 5/8 Slim Duck *(B)* – 2m, 5/8-wave, 7db gain, flexible base loaded ant. 12" long..... **$19.99**

**5/8 SLD-2 COMBO** 5/8 Slim Duck Combo – As above, but includes a 2m stubby duck..... **$29.99**

**RD-2** Regular Duck *(C)* – For 2m. Tuned ducks show a 3db gain over other rubber ducks because they are *impedance matched* for HTs..... **$15.99**

**RDS-2** Stubby Duck *(D)* – Tuned, for 2m **$15.99**

**SS-III** Super Stick III – 220 MHz 5/8-wave, flexible base loaded telescoping antenna. 6-9 db gain extended; usable collapsed, or a one-section 1/4-wave. 36" extended, 8¾" collapsed..... **$19.99**

**SS-III/COMBO** Super Stick III/Combo – As above, but includes a 220 MHz stubby duck..... **$29.99**

**5/8 SLD-220** 5/8 Slim Duck *(E)* – 220 MHz, 7db gain, flexible base loaded 9" antenna..... **$19.99**

**5/8 SLD-220 COM** 5/8 Slim Duck Combo Same as above, but includes a 220 MHz stubby duck antenna..... **$29.99**

**RD-220** Reg. Duck *(F)* – 220 MHz, tuned **$15.99**

**RDS-220** Stubby Duck *(G)* – As above... **$15.99**

**SS-IV** Super Stick IV *(H)* – 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; usable collapsed. 18" extended, 5¾" collapsed..... **$19.99**

**SS-IV/COMBO** Super Stick IV Combo – Same as above, plus has 440 MHz stubby duck..... **$29.99**

**SL-440** Slimline *(I)* – 440 MHz, ¼-wv. flex **$15.99**

**5/8 SLD-440** 5/8 Slim Duck *(J)* – 440 MHz, 7db gain, flexible base loaded 5" antenna..... **$19.99**

**5/8 SLD-440 COM** 5/8 Slim Duck Combo As above, plus has a 440 MHz stubby..... **$29.99**

**RDS-440** Stubby *(K)* – 440 MHz, tuned. **$15.99**

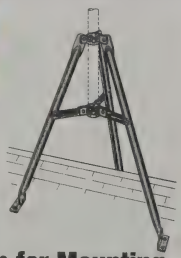
**RDMD-440** Mini Duck *(L)* – As above.... **$15.99**

**FLX 1/2 WAV-2M** Flex-Coil *(M)* – 2M, 1/2-wave, 7-9dB gain, flexible base, 35" fully extended **$25.99**

**270A** *(N)* – Telescoping 2m/440 gain antenna. 1/4-wave (2m) 5/8-wave (440 MHz). The 270A is also available with SMA..... each **$19.99**

**TAQ** – 1/4-wave whip antenna, specify for 2M, 220 or 440 MHz..... each **$10.99**

EASY-UP ANTENNA TRIPODS



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**UPS SHIPPABLE**

The use of a self-supporting antenna mount makes a neat and attractive installation. Easy-Ups are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Fast, one-person installation, the legs extend to any rafter spacing. Shipped completely assembled and includes a pitch pad kit and lag screws.

**EZ 48-3ABX** – 3 ft. high, 8.5 lbs..... **$39.99**

**EZ 48-5ABX** – 5 ft. high, 12 lbs..... **$59.99**

**EZ 5-16** – 5 ft. 16ga. steel mast*..... **$12.99**
*Pick-up only

**EZ 29-24S** Heavy-duty Double-strap Chimney Mount – Includes two "Y" type mounts and 24' of stainless steel strap..... **$22.99**

**EZ 30-24** – Deluxe Wall Mount W/3rd Leg **$29.99**

**EZ 31** – Heavy Duty Adjustable Eave Mount **$29.99**

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Arrow Antenna

## LEO Satellite Antenna

**146/437-10** – KK5YY working VE6EGN on the AO27 satellite using a handheld with only 500mW output, connected to an Arrow 146/437-10. The Arrow is designed to allow portable satellite operation using just an HT. This means it's engineered to provide maximum gain and efficiency within a small size and weight. The boom construction is 3/4 in. square aluminum stock, 37.5 in. long with a foam grip on the back end for comfort. The three VHF and seven UHF Gamma matched elements with separate BNC connectors are aluminum arrow shafts which are strong and lightweight, and plastic tipped for safety..... **$73.00**

**146/437-10BP** – Split boom model .. **$79.00**

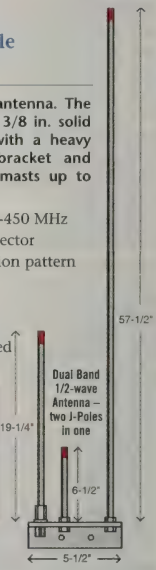
**10W DUPLEXER** – Allows you to hear the down link while you are transmitting. Installs inside the boom and includes connecting coax cables With BNC connector..... **$59.00**
Same, with SMA connector..... **$64.00**

## 146/440 MHz Dual Band J-Pole Antenna

**This a very Heavy Duty antenna. The elements are made from 3/8 in. solid round aluminum stock with a heavy duty angle mounting bracket and mounting hardware for masts up to 1-1/2 in. included.**

- Covers 143-149 and 437-450 MHz
- Single SO-239 feed connector
- Omni-Directional radiation pattern
- Wide Bandwidth
- VSWR less than 1.5:1
- Gain over a 1/4-wave
- No Ground Plane required

**Mounts just about anywhere:** in attic, on a roof vent pipe (up to 1-1/2"), on metal, wood or fiberglass poles, on fiberglass or plastic vehicles, trucks, boats.




**OSJ-146/440**
**$39.99**



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Browse Our Store On-Line at www.aesham.com

## HT RANGE EXTENDERS

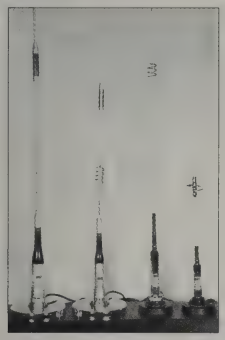
1710 1712 1714
(BNC Connectors)

**1714 Long Ranger™ 2M Halfwave** – For really long range, this MFJ end-fed 1/2-wave is hard to beat. It outperforms a 5/8 wave on a handheld because it does not need a ground plane. At 40 in. extended, it's shorter, lighter, has more gain and places less stress on the antenna connector. When collapsed to 10.5 in., it performs equal to a rubber duck..... **$16.99**

**1712 Dual Bander™ 2M and 440 MHz** – For dualband handheld or separate units, one antenna fits all. It's 1/4 wave for 2m and 5/8 wave with gain for 440 MHz. Dim: 7.25 in. collapsed, 19 in. extended... **$14.99**

**1712S** – Same as 1712 w/SMA connector **$14.99**

**1710 Pocket Linear™ 3/8 Wave, 2M** – Carry in your pocket like a ballpoint pen. When using your rubber duck, on the fringe and noisy, put on the Pocket Linear, extend to 24.5 in. and carry on your QSO. Only 5.25 in. collapsed. Pocket clip.... **$9.99**



1432 1422 1412 1402

## RUFFRIDER™ MOBILE ANTENNAS

(mounts not included)

This series features quality construction using precision machined components. Designed to battle the elements, rugged rides and highway abuse.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate transmit power at the horizon for maximum distance.

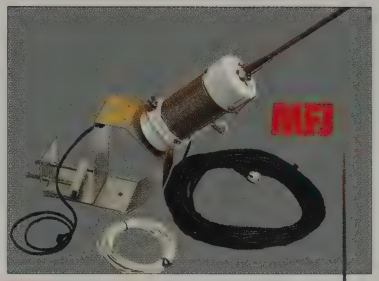
All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a FREE NMO adapter.

**1402 Junior** – 16.5 in. antenna handles 100W. Unity gain on 2M, 3dB gain on 440 MHz. No fold-over ..... **$34.99**

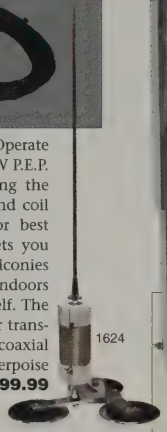
**1412 High Power** – Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz..... **$49.99**

**1422 High Gain** – 41.5 in. long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440 MHz..... **$49.99**

**1432 Highest Gain** – Tall 62.5 in. brute gives you a whopping 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W..... **$69.99**



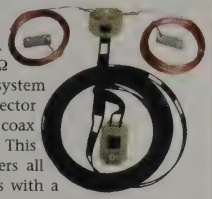
**1622 Apartment Antenna** *(top)* – Operate 40–10M, 6M and 2M, up to 300W P.E.P. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for transport or storage. Includes 50 ft. of coaxial cable, RF choke balun, 50 ft.' counterpoise wire and safety rope ..... **$99.99**



1624

**1624 HF Mini Bugcatcher**
Operate 40 thru 6M, using up to 300W P.E.P. Very simple tuning by changing the tap on the efficient air-wound coil and adjusting the supplied counterpoise for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Versatile mounting using a trunk lip, mirror, luggage or tri-mag mount (shown but not included)..... **$79.99**

**1778 All-Band G5RV Antenna**



Center fed, 102 ft. flat top with a 300Ω twin-lead feeder system and SO-239 connector to accept the 52Ω coax run from the shack. This unique design covers all bands 80-10 meters with a nominal VSWR, so using an antenna tuner is recommended with most rigs. Also can be installed as an inverted-V or sloper. Great on 160 meters operating as a Marconi with a tuner and good ground. Handles 1500W..... **$39.99**

**1910 Telescoping Fiberglass Mast** *(right)* Great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DX-peditions. Use to construct loops and quads. Pull out each section and twist to lock, strong fiberglass, flexes to resist breaking. Extends to 33 ft. and collapses to 3.8 ft. Bottom section 1.75 in. diameter; 3.3 lbs.. **$79.99**

**1899T Walkabout™ Multi-band Telescoping Antenna** *(left)* – Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5 ft. long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. For storage or travel, the whip unscrews from the base matching coil so it measures only about 8 inches when collapsed ..... **$69.99**

1661/
1664

**Manually Tuned Screwdriver Antenna**
Small and lightweight, supplied with a 4.5 ft. telescopic whip for mobile and a 10 ft. telescopic whip for greater efficiency stationary use. Quickly and easily tuned by sliding the aluminum cover over the coil. Copper beryllium finger stock completely surrounds the coil for solid connection as tuning is accomplished. Unused turns on the antenna are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place to prevent movement. The 4.5' whip collapses to 23 in., the 10 ft. whip to 19 in. Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8" x 24 male mount in the base makes it easy to connect to an existing mount.

**1661** – 40-2M, 12 in.; 1 lb..... **$119.99**
**1664** – 80-6M, 15 in.; 1.25 lbs . **$149.99**

# Miracle Antenna

MIRACLE WHIP DUCKER IL

## Miracle Whip

All Band, Rig Mounted Tunable Whip

For the FT-817, and other QRP (5W) or SWL rigs. The Miracle Whip is the only completely self-contained, all-band 57" telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and continuous tune 3.5 to 450 MHz TX. The continuously variable auto transformer design operates effectively without any added counterpoises as the continuously variable nature permits finding a good match when there is no "standard" counterpoise attached. In effect, it uses whatever ground paths are available as a counterpoise ..... **MIA Miracle Whip $129.99**

## Miracle Ducker

Wideband for your Wideband Handheld

Transforms your rubber duck into an all-band HF/VHF/UHF transmitting and receiving antenna with up to 30dB of Receive gain, virtually noise free on HF. Your portable or base rig now can receive AM, the Ham bands, International Shortwave, CB, FM, Airband, VHF and more - all on a rubber duck. And for more fun, you can still transmit thru with the same antenna at QRP levels. The built-in BNC connector, mounts directly onto the radio. **MIA Ducker IL $129.99**

# Driven to Perform, In STYLE!

COMET™ and Maldol Mobile

**Maldol MH-511** • Tri-band 6M/2M/70cm HT Antenna • Length: 4" • Conn: Male SMA

**Maldol MH-510** • Tri-band 6M/2M/70cm HT Antenna • Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA

**COMET HT-224** • Tri-band 2M/220/70cm HT Antenna • Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA

**Maldol MH-610** • Tri-band 2M/220/70cm HT Antenna • Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

**Maldol AX-75** 2M/70cm dual-band shown mounted on the Comet **CP-5M** heavy-duty universal lip mount. Several antenna connector versions are available, all with 16 ft. of 2-step coax and terminating in a PL-259 connector.
Coax max pwr: HF/130W, VHF/75W, UHF/45W

**COMET CP-5M** SO-239 conn
**COMET CP-5NMO** NMO conn
**COMET CP-5 3/8-24** 3/8 x 24 conn

**Maldol EX-510B/EX-510BNMO** • Tri-band 6M/2M/70cm with fold-over • Gain & Wave: 52MHz 1/4 wave 146MHz 2.15dBi 1/2 wave 446MHz 5.5dBi 5/8 wave x 2 VSWR • Length: 37" • Conn: PL-259 or NMO style • Max Power: 50W FM

**COMET SB-15** • Tri-band 6M/2M/70cm with fold-over • Gain & Wave: 52MHz 0dBi 1/4 wave • 146MHz 4.5 dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: PL-259 • Max Pwr: 120W

**UHV-4** • Quad-band 10M/6M/2M/70cm with fold-over hinge • Gain & Wave: 10M & 6M 1/4 wave 2M 2.15dBi 1/2 wave 70cm 5.5dBi 5/8 wave x 2 • Length: 55" • Max Power: 10M 120W SSB 6M2M/70cm 100W FM • Conn: PL-259

**COMET UHV-6** • HF/6M/2M/70cm Mobile Antenna *80/*20/*17/40/15/10/6/2M/70cm Mobile-antenna with fold-over hinge • Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less, 6M-70cm 1.5:1 or less • Length: 44" (min), 78" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • *L-18 optional 17M coil • *L-14 optional 20M coil • *L-3.5 optional 75/80M coil • Features: • 6M/2M/ 70cm operation is constant. You CHOOSE the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in • Select the duplexer or triplexer for your specific radio(s). CF-706A, CF-530, CFX-514N.

**COMET UHV-6** Fold-Over Position

**Maldol HMC-6S** • *40/20/15/10/6/2/70cm Mobile antenna with fold-over hinge • Gain & Wave: HF 1/4 wave 2M 2.15dBi 1/2 wave 70cm 5.3dBi 5/8 wave x 2 • VSWR: HF-6M 1.6:1 or less 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6/2/70cm 150W FM
*HMC-7C optional 40M coil

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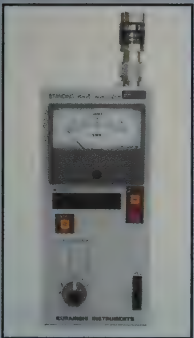
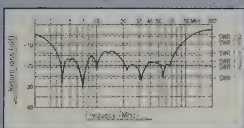


## Kuranishi Instruments LTD, Japan
## BR-210 Professional-Grade SWR/Antenna Analyzer

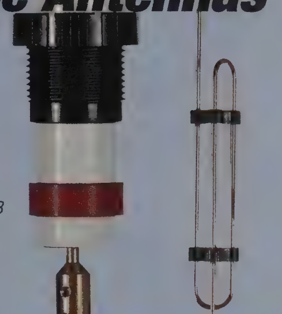
Perform SWR and impedance measurements with confidence! The BR-210 is a laboratory grade precision test instrument providing a wide-band RF signal source for analyzing antenna systems and other equipment without the need for a separate transmitter. • 1.8-170MHz • High precision meter • 500mW 50 Ohm dummy load included • Impedance measurements: 12.5 - 300 Ohm • Connector: SO-239

# COMET & Maldol Dualband and Multiband Base Antennas




**CHA-250B SWR graphed above**

*"One person can effortlessly raise the antenna at night when no one can spot it, and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-DXpedition to a campground or a nice tropical island! In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes, while at the same time getting you on 6 meters thru 80 meters without the requirement of an antenna tuner and ground radials. You'll even be able to work some DX while you're at it!"* – ***Dan Dankert N6PEQ***



**Wi-Fi/802.11b/LAN/HSMM Access Point Antennas**

COMET **CHA-250B** • Broadband HF/6M Ground-Plane Antenna
A newly designed broadband vertical with NO GROUND RADIALS. EXTREMELY easy to assemble, requires no tuning or adjustments and VSWR is under 1.5:1 from 3.5-57MHz! • TX/RX: 3.5MHz – 57MHz, 2.0 – 90MHz • VSWR: 1.5:1 or less, continuous • Max Power: 250W SSB/125W FM • Impedance: 5 Ohm • Length: 23' 5" • Weight: 7 lbs. 1 oz. • Conn: SO-239 • Mast Req'd: 1" – 2" dia. • Max wind speed: 67MPH

COMET **GP-15** • Tri-band 52/146/446MHz Base Repeater Antenna
• Gain & Wave: 52MHz 3.0dBi 5/8 wave • 146MHz 6.2dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7'11" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • 2MHz band-width after tuning (6M) • Construction: Single-piece fiberglass

COMET **CX-333** • Tri-band 146/220/446MHz Base Repeater Antenna
• Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10'2" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

COMET **GP-3** • Dual-band 146/446MHz Base Repeater Antenna
• Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5'11" • Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass

COMET **GP-6** • Dual-band 146/446MHz Base Repeater Antenna
• Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10'2" • Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

Maldol **HVU-8** • Ultra-compact 8 band HF/VHF/UHF vertical antenna
80/40/20/15/10/6/2M/70cm Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for balcony installations, the radials can all be rotated to one side. • HF and 6M: 1/4 wave-length • Gain 2M: 1/2 wave-length, 2.15dBi • Gain 70cm: Two 5/8 waves in phase, 5.5dBi • Impedance: 50 Ohm • Max Power: HF 200W SSB • 6M–70cm: 150W FM • Conn: SO-239 • Height: Only 8'6" • Weight: 5lbs. 7ozs.

COMET **GP-9/GP-9N** • Dual-band 146/446MHz Base Repeater Antenna • BEST SELLER!
• Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W • Length: 17'8" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections

COMET **GP-24** • The standard high gain 2.4GHz access point antenna for maximum range/signal strength. • 2400-2500MHz • Gain: 15.4dBi • Length: 5'10" • Weight: 2lbs. 9ozs. • Conn: Gold-plated N-female • Construction: Heavy-duty white fiberglass radome

COMET **GP-24-3** • Special Order • The same physical high gain 2.4GHz antenna as the GP-24, but with a 3-degree electrical downtilt to concentrate the signal to the horizon and below

COMET **GP-24-S** • Special Order • Medium gain access point antenna for applications where maximum distance is not as important as a solid signal around and directly below the antenna. • Gain: 9.9dBi • Length: 3'9" • Weight: 1lb. 14ozs. • Conn: Gold-plated N-female • Construction: Heavy-duty white fiberglass radome

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# Driven to Perform, In STYLE!

COMET™ and Maldol Mobile

COMET **BNC-24** • Dual-band 2M/70cm HT Antenna
RX range: 100-1200MHz • Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC
*Super flexible featherweight whip*

COMET **SMA-24** • Dual-band 2M/70cm HT Antenna
RX range: 100-1200MHz • Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA
*Super flexible featherweight whip*

COMET **SMA-503** • Dual-band 2M/70cm HT Antenna
RX range: 100-1200MHz • Length: 8.75" Conn: SMA

Maldol **MH-209** (BNC Conn) • 2M/70cm Dual-band HT Antenna
Maldol **MH-209SMA** (SMA Conn)
Gain & Wave: 0 1/4 wave • Length: 3" Soft flexible rubber

**APEX Series**
MALDOL'S Newest Mobiles!
Bright Chrome and Brushed Aluminum Finish!

Maldol **AX-50** • Dual-band 2M/70cm
Gain & Wave: 2M 1/4 wave • 70cm 5.0dBi 9/8 wave • Length: 21" • Conn: PL-259 • Max Power: 60W

Maldol **AX-75** • Dual-band 2M/70cm w/fold-over
Gain & Wave: 2M 1/2 wave center load 3.2dBi • 70cm 5/8 wave x 2 5.7dBi • Length: 30" • Conn: PL-259 • Max Power: 60W

Maldol **AX-95** • Dual-band 2M/70cm w/fold-over
Gain & Wave: 2M 1/2 wave center load 3.3dBi • 70cm 5/8 wave x 2 5.8dBi • Length: 38" • Conn: PL-259 • Max Power: 60W

COMET **B-10/B-10NMO** • Dual-band 146/446MHz cellular look-a-like
Gain & Wave: 146MHz 0dBi 1/4 wave, 446MHz 2.15dBi 1/2 wave • Length: 12" • Conn: B-10 PL-259/B-10NMO NMO • Max Pwr: 50W

**SBB-2/SBB-2NMO** • Dual-band 146/446MHz
Gain & Wave: 146MHz 2.15dBi 1/4 wave, 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18" • Conn: PL-259 or NMO Style • Max Pwr: 60W

Maldol **EX-107RB/EX-107RBNMO** • Dual-band 146/446MHz
Gain & Wave: 146MHz 2.6dBi 1/2 wave, 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 29"
• Conn: PL-259 or NMO Style • Max Pwr: 100W

COMET **SBB-5/SBB-5NMO** • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 2.5dBi1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39" • Conn: SBB-5 PL-259/SBB-5NMO NMO • Max Pwr: 120W

COMET **SBB-7/SBB-7NMO** • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: SBB-7 PL-259/SBB-7NMO NMO • Max Pwr: 70W

**Challenger Series**
COMET'S Newest Mobiles!
Sleek, Super-Flexible, Dark Chrome Finish

COMET **C-757/C-757NMO** Challenger Series • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 2.15dBi 1/2 wave, 446MHz 5.5dBi 5/8 wave x 2 • VSWR: 1.5:1 or less
• Length: 38" • Conn: PL-259 or NMO Style • Max Pwr: 80W

COMET **C-767/C-767NMO** Challenger Series • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 3.5dBi 1/2 wave center load, 446MHz 6.0dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less
• Length: 40" • Conn: PL-259 or NMO Style • Max Pwr: 80W

COMET **CP-5M, CP-5NMO, CP-5 3/8-24** ***Universal mount and coax cable combos.*** (SO-239, NMO, 3/8-24/PL-259) Heavy-duty, adjustable RS-730 trunk/van/SUV/truck door mount and deluxe cable assembly. 16' 6" length w/18" mini RG-188A/U type coax. Max antenna 70".

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# COMET™ & Maldol

## specialists in "No Holes Mobile Mounts!"

**CP Series Universal Lip Mounts**
Four adjustment planes, four large setscrews holds them securely in place on virtually any lip 1/4" thick or less. Use on trunk lids, van doors, truck doors, hoods etc. 16' 6" of deluxe coax cable including 18" of mini RG-188A/U style for easy entry thru the weather seal without causing wind noise, water leaks and/or wind noise.
Max antenna size: 70"/16 oz
Max Power: HF 130W VHF 75W UHF 45W

COMET **CP-5NMO** Universal lip mount with coax, NMO and PL-259 connectors.

COMET **CP-5 3/8-24** Universal lip mount with coax, 3/8x24 threaded stud and PL-259 connectors.

COMET **CP-5M** Universal lip mount with coax, SO-239 and PL-259 connectors.

Mount: CP5M Antenna: C757

*Combine the coax style and length you need with a bracket from below. (assemblies also available with N-connectors)*

COMET **3D5M/3D4M** Standard low loss cable assembly. Gold plated SO-239/PL-259 connectors. 17' length/13.5' length.

COMET **CK-3M5/CK-3M** Deluxe cable assembly 17' length including 17" of RG-188A/U for easy entry from a lip mount without causing water leak, wind noise or coax damage. CK-3M 9'9" total length.

*Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments and fit virtually any lip 1/4" thick or less. Soft rubber protects the vehicle paint.*

COMET **RS-730** Heavy-duty, 4 adjustment planes, up to 70" antenna.

COMET **RS-720/ RS-720NMO** Med-duty, 3 adjustment planes, up to 60" antenna. NMO mount version.

COMET **RS-520** Light-duty, 3 adjustment planes, up to 45" antenna.

Maldol **PRM-T** Heavy-duty, 3 adjustment planes, up to 80" antenna.

Maldol **MK-30H** 12VDC motorized mount. Mounts to vertical or horizontal door lip. Up to 70"/19 oz. antenna.

Maldol **CM-B00** Light-duty, 2 adjustment planes, up to 40" antenna.

COMET **GRB-5M** **Trunk lip mount, low-profile, black anodized stainless steel.** Offset washers provide up to 17 deg. vertical adjustment of antenna. 16'9" of deluxe cable included, 18" of mini RG-188A/U style coax for easy entry thru the weather seal. Gold-plated SO-239/PL-259 connectors.

**The rear doors on newer trucks are the perfect place to mount antennas: • No holes to drill • Above roof line • Easy access**

**When mounting to a van, SUV, truck, etc., use the CP-5M or build your own system with components shown above. There are several mount sizes, coax diameters and coax lengths from which to choose.**

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NCG COMPANY

**DIAMOND ANTENNA** *The Standard By Which All Others Are Judged*

# ACCLAIMED AS THE TECHNOLOGICAL LEADER IN SINGLE & MULTIBAND ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

## Mono-Band Base/Repeater Antennas

| MODEL | BAND (MHz) | GAIN (dB) | WATTS | CONN. | HT. FT. | RATED WIND MPH (No. Ice) |
|---|---|---|---|---|---|---|
| CP22E [1] | 144 | 6.5 | 200 | UHF | 9.0 | 70 |
| DPGH62 [1] | 50 | 6.0 | 200 | UHF | 21.0 | 78 |
| F22A | 144 | 6.7 | 200 | UHF | 10.5 | 112 |
| F23A | 144 | 7.8 | 200 | UHF | 15.0 | 90 |
| F718A | 440 | 11.5 | 250 | N | 15.0 | 90 |
| F1230A2 | 1.2 GHz | 13.8 | 100 | N | 12.0 | 112 |
| G200 | 2.4 GHz | 11 dBi | — | N | 4.8 | 135 |

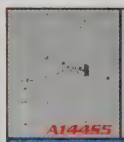
## Dual-Band Base/Repeater Antennas

| MODEL | BAND (MHz) | GAIN (dB) | WATTS | CONN. | HT. FT. | RATED WIND MPH (No. Ice) |
|---|---|---|---|---|---|---|
| X30A | 144/440 | 3.0/5.5 | 150 | UHF | 4.5 | 135 |
| X50A | 144/440 | 4.5/7.2 | 200 | UHF | 5.6 | 135 |
| X50NA | 144/440 | 4.5/7.2 | 200 | N | 5.6 | 135 |
| X200A | 144/440 | 6.0/8.0 | 200 | UHF | 8.3 | 112 |
| X300A | 144/440 | 6.5/9.0 | 200 | UHF | 10.5 | 112 |
| X510NA [2] | 144/440 | 8.3/11.7 | 200 | N | 17.2 | 90 |
| X510MA | 144/440 | 8.3/11.7 | 200 | UHF | 17.2 | 90 |
| ◆ X510HMA | 144/440 | 8.3/11.7 | 330/250 | UHF | 17.2 | 90 |
| X500HNA | 144/440 | 8.3/11.7 | 200 | N | 17.8 | 90+ |
| X700HNA | 144/440 | 9.3/13.0 | 200 | N | 24.0 | 90 |
| U200 | 440/1240 | 8.3/11.7 | 100 | N | 5.9 | 135 |

## Tri-Band Base/Repeater Antennas

Mast requirement: 1.4"-2.4"

| MODEL | BAND (MHz) | GAIN (dB) | WATTS | CONN. | HT. FT. | RATED WIND MPH (No. Ice) |
|---|---|---|---|---|---|---|
| V2000A [3,5] | 52/144/440 | 2.1/6.2/8.4 | 150 | UHF | 8.3 | 110 |
| X3200A [4] | 146/222/440 | 6.0/7.8/8.0 | 100/200 | UHF | 10.5 | 112 |
| X6000A | 144/440/1240 | 6.5/9.0/10.0 | 100/60 | N | 10.5 | 112 |


A144S5

A502HB

A430S10

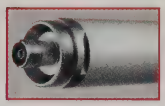
## Yagi Antennas

| MODEL | BAND (MHz) | GAIN (dBi) | WATTS (PEP) | CONN. | BOOM LNTH. | ELEMENT PHASING |
|---|---|---|---|---|---|---|
| A502HB | 50 | 6.3 | 400 | UHF | 2.6' | 2 element |
| A144S5 | 144 | 9 | 100 | UHF | 37.5" | 5 element |
| A430S10 | 432 | 13 | 100 | UHF | 43" | 10 element |
| A430S15 | 432 | 14.8 | 100 | UHF | 89" | 15 element |

NOTES: 1 Heavy duty aluminum construction.
2 X510NJ: 144-147/430-440 MHz.
3 1/4λ, rated in dBi.
4 2m: 146-148; 100 watts
5 52-54 MHz. only

BAND: 144=144-148 MHz., 222=222-225 MHz.
420=420-430 MHz., 430=430-440 MHz.
440=440-450 MHz., 1240=1240-1300 MHz.

## Ruggedized Base/Repeater Antenna X500HNA


COAX CONNECTION AT BASE END

HEAVY DUTY BASE/ RADIAL ASSEMBLY

STRONG JOINT COUPLINGS

### X500HNA

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X500HNA is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

***Features***

- Heavy duty fiberglass radome
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Strong, waterproof joint couplings
- Type-N Cable connection
- Wide band performance

***Specifications:***

| | | |
|---|---|---|
| Frequency: | *2m:* 144-148 MHz | *70cm:* 440-450 MHz |
| Gain: | *2m:* 8.3 dB | *70cm:* 11.7 dB |
| Power: | 200 watts | |
| Wind Rating: | 90 MPH (no ice) | |
| Height: | 17.8 feet | |

### X50NA

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

***Features***

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

***Specifications:***

| | | |
|---|---|---|
| Frequency: | *2m:* 144-148 MHz | *70cm:* 440-450 MHz |
| Gain: | *2m:* 4.5 dB | *70cm:* 7.2 dB |
| Power: | 200 watts | |
| Wind Rating: | 135 MPH (no ice) | |
| Height: | 5.6 feet | |

### X30A

The X30A works well in areas where height and/or antenna restrictions are an issue.

***Features***

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel hardware
- UHF Cable connection
- Compact size for easy installation

***Specifications:***

| | | |
|---|---|---|
| Frequency: | *2m:* 144-148 MHz | *70cm:* 440-450 MHz |
| Gain: | *2m:* 3.0 dB | *70cm:* 5.5 dB |
| Power: | 150 watts | |
| Wind Rating: | 135 MPH (no ice) | |
| Height: | 4.5 feet | |

*See Price Guide for additional models and pricing.* ◆*Indicates New Item.*

DIAMOND ANTENNA

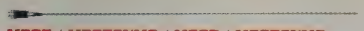
*You've seen the rest...now own the best!*

# DIAMOND'S STATE-OF-THE-ART VHF/UHF & HF/VHF MOBILE ANTENNAS

*Maximum Performance Without Compromise*

FOLD-OVER

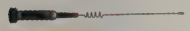
One-Touch Fold-Over Feature.**



M285 / M285SNMO / M685 / M685SNMO

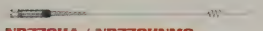
NR22L

SGM510

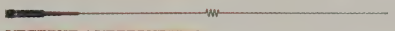


NR72BNMO

NR73BNMO

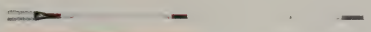


NR770HA / NR770HNMO



NR770HB / NR770HBNMO

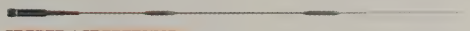
SG7500A / SG7500NMO



SG7900A / SG7900ANMO

CR320A / CR320BNMO

NR140BNMO



CR627B / CR627BNMO

SGM911

| MODEL | BAND (MHz) | GAIN (dBi) | WATTS (PEP) | CONN. | HT. IN. | ELEMENT PHASING *1/4λ rated in dBi.* |
|---|---|---|---|---|---|---|
| M285*[10] | 2m | 3.4 | 200 | UHF | 52.4 | 5/8λ |
| M285SNMO*[10] | 2m | 3.4 | 200 | NMO | 52.4 | 5/8λ |
| NR22L* | 2m | 6.5 | 100 | UHF | 96.8 | 2-5/8λ |
| SG2000HD* | 2m | 5.2 | 250 | UHF | 62.6 | 1/2λ+3/8λ |
| HF6FX*[6] | 6m | 2 dBi | 250 | UHF | 40 | 1/4λ |
| HF50CX*[6] | 6m | 3.5 dBi | 200 | UHF | 75 | 3/8λ |
| M685*[6] | 6m | 2.15 dBi | 200 | UHF | 52.4 | 1/4λ |
| M685SNMO*[6] | 6m | 2.15 dBi | 200 | NMO | 52.4 | 1/4λ |
| NR140BNMO | 1-1/4m | 4.0 | 150 | NMO | 37 | 1/2λ+1/4λ |
| ◆ NR124NMO | 23cm | 8.4 | 100 | NMO | 25 | 4-5/8λ |
| MG200 | 2.4GHz | 7 dBi | - | N | 23.6 | 3-1/2λ |
| CR270A | 2m/70cm | 2.15/3.4 | 50 | UHF | 17 | 1/4λ, 5/8λ, |
| MR77 | 2m/70cm | 2.15/3.4 | 70 | MAG | 20 | 1/4λ, 1/2λ |
| MR77SMA | 2m/70cm | 2.15/3.4 | 70 | MAG | 20 | 1/4λ, 1/2λ |
| NR72BNMO*[6] | 2m/70cm | 2.15 | 100 | NMO | 13.8 | 1/4λ, 1/2λ |
| NR73BNMO | 2m/70cm | 2.15/5.3 | 100 | NMO | 33.5 | 1/2λ, 1-5/8λ |
| NR770HA[7] | 2m/70cm | 3.0/5.5 | 200 | UHF | 40.2 | 1/2λ, 2-5/8λ |
| NR770HNMO[8] | 2m/70cm | 3.0/5.5 | 200 | NMO | 38.2 | 1/2λ, 2-5/8λ |
| NR7900A* | 2m/70cm | 3.7/6.4 | 300/250 | UHF | 57 | 1/4λ+1/2λ, 3-5/8λ |
| SG7000A*[6] | 2m/70cm | 2.15/3.8 | 100 | UHF | 18.5 | 1/4λ, 6/8λ |
| SG7500A | 2m/70cm | 3.5/6.0 | 150 | UHF | 40.6 | 1/2λ, 2-5/8λ |
| SG7500NMO | 2m/70cm | 3.5/6.0 | 150 | NMO | 41.0 | 1/2λ, 2-5/8λ |
| SG7900A* | 2m/70cm | 5.0/7.6 | 150 | UHF | 62.2 | 7/8λ, 3-5/8λ |
| SG7900ANMO* | 2m/70cm | 5.0/7.6 | 150 | NMO | 62 | 7/8λ, 3-5/8λ |
| SGM510 | 2m/70cm | 2.15/5.5 | 100 | UHF | 37 | 1/2λ, 2-5/8λ |
| CR320A*[6] | 2m/1-1/4m/70cm | 2.15/3.8/5.5 | 200/100/200 | UHF | 37.4 | 1/4λ, 1/2λ, |
| CR320BNMO*[6] | 2m/1-1/4m/70cm | 2.15/3.8/5.5 | 200/100/200 | NMO | 38 | 2-5/8λ |
| NR2000NA | 2m/70cm/23cm | 3.15/6.3/9.7 | 100 | N | 39 | 1/2λ, 2-5/8λ, 5-5/8λ |
| CR627B*[6,9] | 6m/2m/70cm | 2.1/4.5/7.2 | 120 | UHF | 60 | 1/4λ, 1/2λ+1/4λ |
| CR627BNMO*[6,9] | 6m/2m/70cm | 2.1/4.5/7.2 | 120 | NMO | 60 | 2-5/8λ |
| SGM911*[6,9] | 6m/2m/70cm | 2.15/3/5.8 | 60 | UHF | 41 | 1/4λ, 1/2λ, 2-5/8λ |
| CR8900A*[6,11] | 10m/6m/2m/70cm | 2.1 (2m)<br>5.5 (70cm) | 60 | UHF | 50 | 1/4λ, 1/4λ<br>1/2λ, 2-5/8λ |

NMO/UHF

NMO/UHFB

BNCJ-SMAP

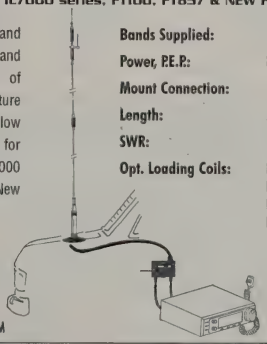
PC-3

## HV7A Mobile Antenna System

### For New HF/VHF transceivers

**(Such as: IC706 & IC7000 series, FT100, FT857 & NEW FT8900R)**

The HV7A has 5 band capability: 70cm, 2m, 6m, and 2 HF bands through use of loading coils. Foldover feature allows for easy access into low over-head buildings. Ideal for users of IC706 & IC7000 series, FT100, FT857 and New FT8900R radios.



| | |
|---|---|
| **Bands Supplied:** | 10m/6m/2m/70cm |
| **Power, P.E.P.:** | HF 120w/VHF 200w |
| **Mount Connection:** | UHF |
| **Length:** | 54" |
| **SWR:** | 1.5:1 nominal |
| **Opt. Loading Coils:** | HVC7 40m<br>HVC14 20m<br>HVC18 17m<br>HVC21 15m |

Recommended Antenna Mounts: K400C, K400S, K600S or K600M

6 Grounding required
7 NR770HB same specs but in black finish.
8 NR770HBNMO same specs but in black finish.
9 52-54MHz only
10 Tunable from 140-174MHz
11 FM only

* Not recommended for Magnet Mount

** Fold-Over not available on CR-270A, M285, M285SNMO, M685, M685SNMO, MG200, MR77, MR77SMA, NR72BNMO, and NR73BNMO

DIAMOND ANTENNA

*See Price Guide for additional models and pricing.* ◆*Indicates New Item.*

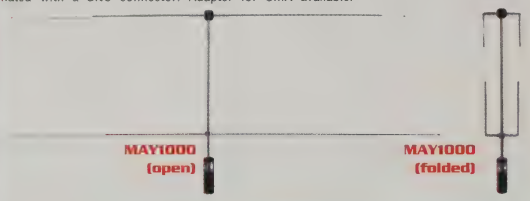
**Diamond Antenna Division of RF Parts Co.** Tel: (760) 744-0900 • FAX: (760) 744-3116 • www.diamondantenna.net

DIAMOND ANTENNA *The Standard By Which All Others Are Judged*

# HT/SCANNER ANTENNAS - COAX SWITCHES LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

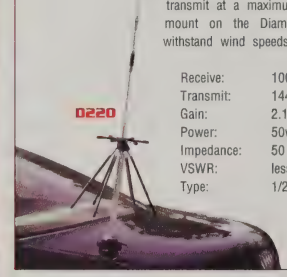
## Handheld Direction Finding Beam Antenna

The MAY1000 handheld beam is a great antenna for radio direction finding on a wide variety of frequencies. Every aspect of the antenna is adjustable and since the elements fold on a hinged joint it is fairly compact. It comes with a frequency chart that gives you the dimensions for the length of each of the elements and dimensions for element spacing so that you can optimize it for any frequency between 120MHz and 500MHz you need to track on. Whether you are tracking birds, bears, ELTs or a stuck transmitter, this antenna will be a great addition to your kit. The 39" cable attached to the antenna is terminated with a BNC connector. Adapter for SMA available.




## Mobile Discone Antenna

The D220 mobile discone antenna offers outstanding broadband reception performance from 100MHz to 1600MHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond K400/K600 series of mounts and will withstand wind speeds in excess of 100MPH.




| | |
|---|---|
| Receive: | 100 to 1600MHz |
| Transmit: | 144, 440, 902, 1200MHz |
| Gain: | 2.15dBi 144, 902, 1200MHz, 5.5dBi 440MHz |
| Power: | 50watts PEP |
| Impedance: | 50 ohms |
| VSWR: | less than 1.5:1 |
| Type: | 1/2 wave 144MHz, 2 x 5/8 wave 440MHz |
| Length: | 35.5" / .90m |
| Weight: | .85 pounds / 385g |
| Connector: | UHF female |
| Mounts: | K400 and K600 series |

## HT/Scanner Antennas

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

**RH3** 2m/70cm dual band "Black Bullet" HT antenna. 1.75" BNC. 120-900 receive

**RH77CA** High gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", BNC.

**RH205** 2m HT antenna, telescopic, 5/8λ fully extended, 47.5"; 1/4λ retracted, 9"

**RH519** 2m/70cm slim dual-band HT antenna. Flexible. 8" BNC, 10 watts.

**RH707** 2m/70cm dual-band tiltable whip - HT antenna. 8 1/4" BNC.

**RH789** Adjustable 1/4λ. 93-300MHz; 5/8λ. 300-1100MHz, 7 3/4"-32" +9dB

**RH9515** High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. 14" BNC (Wide band receive)

**RHF40** Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15" BNC.

**SRHF40** Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15" SMA.

**SRH77CA** High gain 2m/70cm dual band flexible HT antenna. 15" SMA, 10 watts.

**SRH320A** 2m/1-1/4m/70cm tri-band HT antenna. Flexible. 13 3/4" SMA. 10 watts.

**SRH519** 2m/70cm dual-band HT antenna. Flexible. 8" SMA, 10 watts.

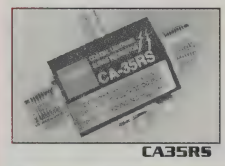
**SRH789** Adjustable 1/4λ. 93-300MHz; 5/8λ. 300-1100MHz, 7 3/4"-32" +9dB. BNC.

**SRH805** 2m/70cm/23cm tri-band HT antenna. 1.75" SMA, 10 watts.

**SRH815** 2m/70cm/23cm tri-band HT antenna. Flexible. 6" SMA, 6 watts.

**SRH999** 6m/2m/70cm/23cm quad-band HT antenna. Flexible. 19.5" SMA, 10 watts.

## Dummy Loads & Coaxial Switches




CA35RS

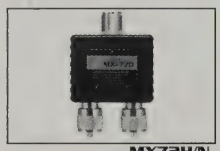
CX310A

CX210A/N

DL30A/N

| MODEL | DESCRIPTION |
|---|---|
| CA35RS | Lightning surge protector, DC-1000 MHz, 400w, SO-239 |
| CA35RPW | Lightning surge protector, DC-1000 MHz, 400w, UHF(F) to UHF(M), Waterproof. |
| CA23RS | Lightning surge protector, DC-2500 MHz, 200w, Type-N (F) |
| CA23RW | Lightning surge protector, DC-2500 MHz, 200w, Type-N (F) Waterproof. |
| CX210A | Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW, SO-239 |
| CX210N | Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW, Type-N |
| CX310A | Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239 |
| DL30A | Dummy load, DC-500 MHz. 15w average/100w peak. PL-259 |
| DL30N | Dummy load, DC-500 MHz. 15w average/100w peak. Type-N |

## Duplexers & Triplexers



MX72H/N

MX62M

MX72D

MX2000

| MODEL | MX72D | MX72H | MX72N | MX2000 | | | MX62M | |
|---|---|---|---|---|---|---|---|---|
| FREQUENCY | LPF | | HPF | LPF | BPF | HPF | LPF | HPF |
| BAND (MHz) | 1.6-30 | 140-150 | 400-460 | 1.6-60 | 110-170 | 300-950 | 1.6-56 | 76-470 |
| PWR CW (ICAS) | 400 | 150 | 100 | | | | | |
| WATTS P.E.P. | 1000 | 400 | 250 | 800 | 800 | 500 | 600 | |
| THRU LOSS/dB | 0.15 | 0.15 | 0.25 | 0.15 | 0.2 | 0.25 | 0.2 | 0.3 |
| ISOL | 60dB | | | 60dB | | | 50dB | |
| VSWR | 1.2:1 | | | 1.2:1 | | | 1.2:1 | |
| CONNECTOR COMPLEMENT | (M) MIX 144 430 (M) (M) | (M) MIX 144 430 (M) (M) | (M) MIX 144 430 (M) (N) | (M) MIX 50 144 430 (M) (M) (M) | | | (M) MIX HF VHF (M) (M) | |
| CONNECTOR | Direct | 12" Cable w/Connectors | | 12" Cable w/Connectors | | | 12" Cable w/Connectors | |

*See Price Guide for additional models and pricing.* ◆ *Indicates New Item.*

*Designed for today's high performance antennas.*

# PREMIUM ANTENNA MOUNTS & CABLE ASSEMBLIES

K702M

K515

K550

K412

CRM

## K400 Heavy Duty Hatchback/Door/Trunk Lid Mount

K400

Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas. Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

| | |
|---|---|
| **K400C*** | SO-239 base, 6.5' coax & PL-259 |
| **K400CNMO*** | NMO base, 6.5' coax & PL-259 |
| **K400-3/8C*** | 3/8X24 base, 6.5' coax & PL-259 |
| **K400S†** | SO-239 base, 13.5' coax & SMA |
| **K400SNMO†** | NMO base, 13.5' coax & SMA |

## K412 Deluxe Hatchback/Door/Trunk Lid Mount

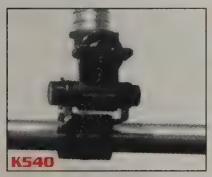
Two-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45°.

| | | | |
|---|---|---|---|
| **K412C*** | SO-239 base, 6.5' coax & PL-259 | **K412CNMO*** | NMO base, 6.5' coax & PL-259 |
| **K412S†** | SO-239 base, 13.5' coax & SMA | **K412SNMO†** | NMO base, 13.5' coax & SMA |

## K515 Universal Luggage Rack Mount

Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for light-weight VHF/UHF antennas under 45°, not requiring RF ground. Position adjusting knob allows antenna to fold to horizontal position.

**K515S†** SO-239 base, 13.5' coax & SMA **K515SNMO†** NMO base, 13.5' coax & SMA


K540

## K540 Mirror/Luggage Rack Mount

Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45°. Position adjusting knob allows antenna to fold to hoizontal position.

| | |
|---|---|
| **K540KM** | SO-239 base, 13' coax & PL-259 |
| **K540** | Mount Only |

## K550 Luggage Rack Mount

Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45°. Position adjusting knob allows antenna to fold to horizontal position.

**K550KM** SO-239 base, 13' coax & PL-259 **K550** Mount Only

K600

## K600 Variable Angle Trunk Mount

Deluxe aerodynamic trunk mount. Vertical adjustment 0-9º. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

| | |
|---|---|
| **K600M** | SO-239 base, 16.5' two-step RG-188 + 10" 5D coax & PL-259 |
| **K600S†** | SO-239 base, 13.5' RG-316 coax & SMA |

K9000

## K9000 Motorized Mount

Raise and lower your antenna with a touch of a button. Vertical adjustment 0-9º. Accepts "ground independent" antennas up to 45°. Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, and NR770 series.

| | |
|---|---|
| **K9000TM*** | Trunk/Hatchback Mount |
| **K9000LRM*** | Luggage Rack Mount |

HRK5

## HRK5 Adhesive Backed Mount

Adhesive backed for flat surface installations including glass, fiberglass, and metal. SO-239 base, 13.5' RG-316/B coax with SMA connector. PL-259 adapter included. Recommended antennas: NR770HA, NR770HB, and SGM510.

## CRM
### Mirror & Luggage Rack Mount

Stainless steel right angle mount with U-bolt. Recommended for: Motor home ladders, Luggage racks, Balcony railings, Lumber racks, Pipe racks

## K702M
### Deluxe Low Profile Magnet Mount

Magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4"h. For VHF/UHF antennas up to 50"h. Includes thin mylar protective sheet to enhance grip and protect paint. SO-239 base, 13' RG58A/U cable with PL-259 connector.

SPM35

## Heavy Duty Magnet Mount

2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' RG58A/U coax and PL-259. Recommended for antennas under 45°.

| | |
|---|---|
| **SPM35** | SO-239 mount, with PL-259 connector. |
| **DPK4NM-N** | Type-N mount, with Type-N connector. |
| **SPM-NMO** | NMO mount, with PL-259 connector. |

# Cable Assemblies

C101

## C101

SO-239 base, 6.5' RG316 Teflon coax & PL-259. Ideal cable assembly for trunk mount radios.

| | |
|---|---|
| **C101NMO** | Same as C101 with NMO base. For Diamond's K-Series mounts. |
| **C213** | Same as C101, 13.5' length cable |
| **C213NMO** | Same as C101NMO, 13.5' length cable |

## C110

Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

| | |
|---|---|
| **C110BNC** | 10' assembly similar to above, uses RG316 Teflon Coax terminating in BNC-male. |
| **C110SMA** | Similar to C110BNC, terminates in SMA-male. |
| **C211** | SO-239 base, 16.5' assembly & PL-259. Combination of C101 & C110. |

C110

C1045MA

## C1045MA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

## C1055MA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.

C1055MA

* Use C110 for front radio installations.
† Includes SMA to UHF adapter.

*See Price Guide for additional models and pricing.* ◆ *Indicates New Item.*

## 2M/70CM Dual Band Series Antennas

Radiall/Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Radiall/Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

**NMO-2/70-SH** ..... **$44.99**
Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: NMOUHFBASEB w/spring
Height: 19"
Whip: WNMO2/70SH
Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

**NMO-2/70B (black)** ..... **$74.99**
Freq: 144-148/440-450 MHz
Gain: 1.6/3.5 dBd
Power: 100 Watts
Type: VHF: Center Loaded 1/2 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 36.75"
Whip: W2/70B
Amateur 2m/70cm dual band antenna for NMO.

**MM-2/70PL** ..... **$59.99**
Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200/100 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: 3' Round Mag Mount
Height: 18"
Whip: WMM2/70
Complete 2m/70cm magnetic mount antenna with 12' of RG-58A/U coax.

**RADIALL/LARSEN**
**Radiall/Larsen Antenna Technologies**
3611 NE 112th Avenue
Vancouver, WA 98682
360 944-7551, Fax: 360 944-7556
Email: info@radialllarsen.com
Web: www.radialllarsen.com

## Kulglass Series High Performance Glass Mount Antennas

Radiall/Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Radiall/Larsen's unique bonding enhancer ensure the best possible grip to the glass.

**KG-2/70-CX-PL** ..... **$129.99**
Freq: 144-148/442-448 MHz
Gain: 0/2 dBd • 2.4/4.5 dBd*
Power: 100 Watts
Type: VHF: 1/2 Wave
UHF: Collinear
Base: KG2/700/S
Height: 32.75"
*Ground plane required for gain
Glass mount dual band antenna for 2m/70cm amateur radio frequencies.

**KG-144-UD-PL** ..... **$89.99**
Freq: 144-160 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG1440/S
Conn: PL-259
Height: 48"
Whip: WKG144
Complete KG glass mount antenna.

**KG-440-UD-PL** ..... **$73.99**
Freq: 440-460 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG4400/S
Conn: PL-259
Height: 15"
Whip: WKG440
Complete KG UHF glass mount antenna with coax and connector.

**W-KG2/70** ..... **$29.99**
2M/440 On-Glass replacement Whip

## Tri-Band Scanner Antenna

**NMO-150450800** ..... **$29.99**
Freq: 150-165/450-470/806-940 MHz
Gain: -7/0/1 dBi
Type: Tri-Band Scanner Only
Mount: NMO
Height: 16.5"

## Radiall/Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Radiall/Larsen portables. All center cores are made of brass or copper plated steel to maximize RF emission. Fully soldered connections and silver-plated components improve electrical efficiency. Double spring BNC's reduce wear on the mount. Other styles available.

**KD4-146-HQ (2m)** ..... **$25.99**
Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/4 Wave Helical
Conn: BNC
Height: 10.5"

**KD14-2M-HW** ..... **$38.99**
Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/2 Wave Telescoping
Conn: BNC
Height: 11 to 44.5"
Whip: WKD142MHW

**KD4-2/70** ..... **$39.99**
Freq: 144-148/440-450 MHz
Gain: Unity
Power: 25 Watts
Type: VHF: Loaded 1/4 Wave
UHF: 1/4 Wave
Conn: BNC
Height: 9"
Impedance matching transformer provides high Q and deeper resonance.

**KD14-445** ..... **$19.99**
Freq: 406-512 MHZ (SPEC 445 MHz)
Gain: Unity
Type: 1/4 Wave
Conn: BNC
Height: 6-1/2"

**OM-150CK** ..... **$69.99**
Complete self-mounting no ground plane antenna with internally attached cable. Black coil, chrome whip, field tunable.
Freq: 144-174 MHz
Gain: 2.5 dBd*
Power: 200 Watts
Type: 1/2 Wave
Height: 51.75"
Whip: W490
Coax: 17' of RG-58A/U
*Ground plane required for gain

# Hear The Difference

## Industry's Best NMO Mobile Antennas

Radiall/Larsen's own version of the standard 3/4" Motorola TAD/TAE type mount uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

**NMO-27C (chrome) ..... $32.99**
**NMO-27B (black) ..... $36.99**
Freq: 27-31 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Base: NMO27BCO
Height: 53"
Whip: W490

**NMOQ-SPEC (chrome) ..... $13.99**
**NMOQ-SPEC-B (black) ..... $15.99**
**NMOQ-SPEC-K 3/4" Kit (chrome) $28.99**
Freq: 136-960 MHz
Gain: Unity
Power: 200 Watts
Type: 1/4 Wave
Height: 22"
Whip: W200

**NMO-50C (chrome) ..... $32.99**
**NMO-50B (black) ..... $36.99**
Freq: 47-54 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Height: 52.5"
Whip: W490

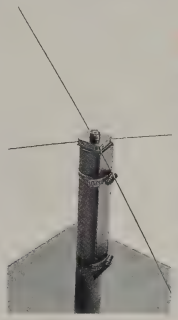
**NMO-150C (chrome) ..... $30.99**
**NMO-150B (black) ..... $33.99**
Freq: 144-174 MHz
Gain: 3 dBd
Power: 200 Watts
Type: 5/8 wave
Height: 51.5"
Whip: W490

**NMO-440C (chrome) ..... $29.99**
Freq: 440-460 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 33"
Whip: W154

**NMO-900B (black) ..... $39.99**
Freq: 890-960 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 12.75"
Whip: W195B .100, enclosed coil

## Base Station Antennas

Radiall/Larsen manufactures a variety of small base station for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.



**BSA-K $53.99**
Freq: 144-512 MHz
VSWR: 1.5:1 or less
Power: 200 Watts
Conn: UHF Female
Whip: 51-3/4"
Complete base station kit for designing a base station unit from 144-512 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

## Mobile GPS Antenna

**GPS-NMO02 $69.99**
Freq: 1575.4 MHz
Gain: 5 dBic/28 ±2 dB (LNA)
Voltage: 5 VDC
Type: GPS NMO mount
Height: 1.3" high x 2.9" diameter

## Mounts

Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coaxial cable.

**NMO-K**
Motorola-style
Roof Mount
Size: 3/4"
Coax: 17' RG-58A/U
Conn: PL-259
**$15.99**

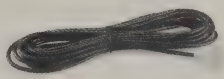
**NMO-TLP**
Motorola-style Low Profile Trunk Lip Bracket, black
Size: 1-3/4" x 1-3/4"
Coax: 17' RG-58A/U
Conn: PL-259
**$29.99**

**NMO-MMR**
Motorola-style Round Magnetic Mount
Size: 3-1/2" dia.
Coax: 12' RG-58A/U
Conn: 58FCP
Pull Strength: 90 lbs.
**$32.99**

**PO-K**
SO-239 female type roof mount
Size: 3/4" hole
Coax: 17' RG-58A/U
Conn: PL-259
**$32.99**

**PO-MM**
SO-239 female type magnetic mount
Size: 3-1/2 x 3" Rectangle
Coax: 17' RG-58A/U
Conn. 58FCP
Pull Strength: 90 lbs
**$36.99**

**NMO-KHF-UD**
NMO style roof mount
Size: 3/4" hole
Coax: 17' RG-58/U
Dual Shield
Conn: 58FPC
**$12.99**



**NMO-B38** NMO Snap-in Mount with A7 NLA adapter ..**$13.99**

## Parts and Accessories

**W-490 ..... $8.99**
Chrome .100 tapered replacement whip for 144 MHz. (49")

**W-490B ..... $12.99**
Black .100 tapered replacement whip for 144 MHz. (49")

**W-2/70B ..... $27.99**
Black .100 dia. replacement whip for NMO 2/70B (approx. 31")

**RG-SS ..... $5.99**
3 Super Seal NMO Gaskets

**SPRING ..... $10.99**
Shock Spring

**HP-34 ..... $3.99**
(5) 3/4" Rubber Hole Plugs

**KG-REINSTALL ..... $8.99**
Reinstall Kit for KG's

**NMO-CAP-B ..... $4.99**
Black NMO Rain Cap


**RADIALL/LARSEN**
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Web: www.radialllarsen.com

# pro·am® ANTENNAS & ACCESSORIES

## 160-6 Meters Mobile

### PHF Series Antennas

Single band whips consisting of a black fiberglass lower section with integrated coil and an adjustable and removable stainless steel whip, except for the PHF-160. These time-proven HF antennas are especially designed for maximum efficiency, low VSWR and broad bandwidth. They are power rated for 250 Watts P.E.P. and built to withstand considerable use. Standard 3/8" x 24 thread base. Assembled length on all models is 96 in. (the PHF-6 is 58 in.).

The model **DAK-AD** Dual Adapter Mount ($13.99) accepts two antennas to make up a single band vertical or horizontal dipole which is perfect for limited space or portable operation..

| Model | Band | Bandwidth | Price |
|---|---|---|---|
| PHF-160 | 160M | 12 kHz | $89.99 |
| PHF-75 | 75M | 36 kHz | $29.99 |
| PHF-40 | 40M | 60 kHz | $23.99 |
| PHF-30 | 30M | 100 kHz | $23.99 |
| PHF-20 | 20M | 150 kHz | $23.99 |
| PHF-17 | 17M | 175 kHz | $23.99 |
| PHF-15 | 15M | 200 kHz | $23.99 |
| PHF-12 | 12M | 300 kHz | $23.99 |
| PHF-10 | 10M | 500 kHz | $23.99 |
| PHF-6 | 6M | 1000 kHz | $23.99 |

## Thru Glass 2 Meter

**GM-144 $29.99**
Mounts on windshield and operates thru-the-glass to a tuning unit mounted on the inside. Features a 27-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.5 dB over a 1/4 wave. VSWR is 1.5:1 through the band. Rated for 50W. Tunable.

*Some autos have "passivated glass" which does not permit thru-glass antennas to work. Check your manual or with your dealer.*

## Thru Glass 2M/70CM

**GM-270 $59.99**
Dual Band 2M/70cm thru-the glass antenna featuring a 26-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.6 dB over a 1/4 wave at 2m and 4.0 dB over 1/4 wave at 70 cm. VSWR is <2:1 through the bands. Rated for 50W. Tunable.

GM-144

**TGS $34.99**
Thru-the-glass Scanner Antenna for 112-1200 MHz **receive only**. Looks like GM-270, 22 in.tall, complete with cable connectors and mounting hardware.

GM-270

**MM-270B $19.99**
Dual Band 2M/70cm MICRO-MAG™ with a 1-1/8 in. black ABS rare earth magnetic base and stainless steel 20 in. whip. A 2M 1/4-wave and 70 cm 5/8-wave with unity gain and 1.5:1 VSWR throughout the bands. Rated for 50W on 2m and 25W on 70 cm. Has 9 ft. of RG-174 cable to a BNC connector.

MM-270B

## Magnet Mount Antennas

**VAA-002B $23.99**
2 meter 1/4 wave antenna with a 3-1/4 in. magnetic base. 19 in. 17-7ph stainless steel whip and 12 ft. of cable with PL-259 connector. Can also be trimmed for 220 or 450 MHz operation. Black finish.

**VAA-002BBN $24.99**
Same, but with BNC connector

**PM-144-440BN $29.99**
Dual band: 2M (unity gain) and 440 MHz (2.1dB gain), 18-3/4 in. tall with 3 in. dia. magnetic base and 12 ft. of RG-58 cable with BNC connector

VAA-002B/BBN

PM-144-440BN looks similar to VAA-002BBN except it has an open loading coil in the center of the whip section

**PMM-3B $19.99**
Tri-Band (40W) 2M / (24W) 70cm + (15W) 824-896 MHz (Cellular/Scanner). Similar to VAA-002BN MICRO-MAG™ above. Only 13-1/2 in. tall with 9 ft. coax and BNC.

PAS
PASMO

**PAS $19.99**
Motorola-style surface mount with 17 ft. of RG-58 cable and PL-259 connector. Installs in 3/4" hole in roof, fender or cowl mount.

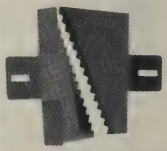
**PASMO $7.99**
Motorola-style 3/4" hole surface mount only, less cable and connector

## Mounts

**105AD $6.99**
Mount assembly. Nickel plated brass SO-239 and extra HD hex. For Plug to plug connections.

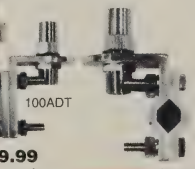
**105HD $3.99**
Mount assembly. Bolt mounts through a 1/2 in. hole. Extra HD-duty nickel plated brass hex. For plug to lug.

**103S $24.99**
Quick disconnects for quick antenna removal One 3/8" x 24 base and five spring loaded twist-lock connectors.



**120 $9.99**
Radio Hump Mount. Saw-tooth design grips without damage to carpet. Adjustable, steel, baked black finish.

101ADN


100ADT

**100ADT $9.99**
Extra heavy duty aluminum 3-way mirror mount. 3/8" x 24 mount and SO-239 connection

**101ADN $10.99**
HD alum. double groove horizontal mirror mount. 3/8" x 24, SO-239

**100ADN $10.99**
Extra heavy-duty aluminum double groove Mirror Mount with 3/8" x 24 mount and SO-239 connection.

**SS-100MOT $23.99**
Stainless steel 3-way Mirror Mount with Motorola-style mount. Includes 10 ft. of RG-58 cable with PL-259.

**DAK-AD $13.99**
Dipole Adapter Mount with one Lug and one SO-239. Accepts two PHF or other 3/8"x 24 antennas for vertical or horizontal dipole.

## Multi-Band Mobile

**AST-6BTV $119.99**
Suitable for passenger Vehicles, SUVs and light pick-ups. Covers 6 through 80 Meter Amateur Bands. Stainless Steel Whip, nickel-plated brass hardware and copper loading coils. Gloss black, gold labeled resonators and stainless steel whip. Suitable for portable or inexpensive fixed location operation. Mast fits any standard 3/8 x 24 thread mobile mount.

## Dual Band 2M & 70CM +

**MO144-440 $21.99**
A dual band antenna to over it all! 19" Covers 2M/70cm plus works great for all band scanners 25 MHz-1.3 GHz. Stainless steel whip. Mount with 1-1/8" threads match 3/4" hole pro•am and Motorola TAD/TAE mounts. SWR less than 2:1. Gain: unity on 2m and 2.1dB over a 1/4 wave on 70 cm.

MO144-440


AST-6BTV

## 2 Meters

**PHB-144 $29.99**
5/8 wave, 3dB gain over 1/4 wave, covers 144-174 MHz. Tuned, low loss coil with 1-1/8" threads to match Pro•am and 3/4 in. hole Motorola TAD/TAE mounts.Rated 100W, whip length 49 in.

**CX-144 $19.99**
5/8 wave, 3 dB gain over 1/4 wave. Heavy duty matching coil with standard 3/8" x 24 chrome-plated base. Rated at 100W, length 49 in.

CX-144
PHB-144

## Utility

**PAQA $10.99**
A unity gain stainless steel UHF/VHF whip that covers 136 to 866 MHz with cutting required. Nickel/chrome plated brass base with 1-1/8" threads to match Pro•am and 3/4" hole Motorola TAD/TAE mounts. Includes cutting chart.

PAQA

**PAT-2 $19.99**
A chrome low profile trunk-lip mount including 17 ft. of RG-58 cable with PL-250 connector.
Model **PAT-2B** is BLACK.

**PAMB $24.99**
A black 3-3/4 in. diameter low profile magnet Motorola mount pre-wired with 12 ft. of RG-58 cable to a PL-259 connector.

**301 $16.99**
4 in. dia. with 3/8" x 24 mount.

**401 $19.99**
5 in. dia. with 3/8" x 24 mount.

**MM-3401 $59.99**
Heavy Duty magnet mount for NMO based antennas with adapter for 3/8" x 24 thread. Features three 5 in. dia. magnets on a heavy duty aluminum frame protected by an ABS plastic cover. Includes 17 ft. of RG-58 cable with PL-259 connector. Dim: 9-1/2" x 9-1/2" x 2"h. Wt: 8 lbs.

**PAN-38 $14.99**
3/8" x 24 to NMO mount adapter

HUSTLER®

**Model G3-144 . . . . $70.99**

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

Model G3-144

**ELECTRICAL**
- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

**MECHANICAL**
- Termination: SO-239
- Length: 7' 5"
- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.²
- Mounting: 1 to 1 ¾"
- Construction: High strength fiberglass & aluminum.

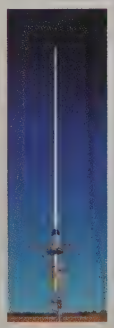
**Model G6-270R . . . . $189.99**
**Dual band**
**2 Meter & 440 MHz**

G6-270R

**ELECTRICAL**
- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz – 2 Meters, 10 MHz – 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

**MECHANICAL**
- Termination: N female
- Length: 7' 6"
- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾"
- Construction: one piece radome

**Model G6-440 . . . . $169.99**



G6-440

**ELECTRICAL**
- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

**MECHANICAL**
- Termination: Type N female
- Length: 7' 3"
- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾"
- Construction: one piece radome

## VHF and UHF Omni Directional Fixed Station Vertical Antennas

**Model G7-144 . . . . $189.99**
**Two Meter**

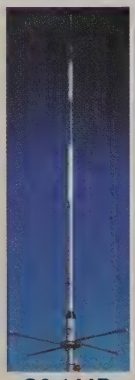
The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

G7-144

**ELECTRICAL**
- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

**MECHANICAL**
- Termination: N female
- Length: 15' 4"
- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 ¾"
- Construction: High strength fiberglass & aluminum.

**Model G6-144B . . . . $129.99**
**Two Meter**

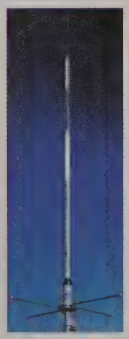


G6-144B

**ELECTRICAL**
- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

**MECHANICAL**
- Termination: SO-239
- Length: 9' 9"
- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾"
- Construction: High strength fiberglass & aluminum.

**Model G7-220 . . . . $159.99**



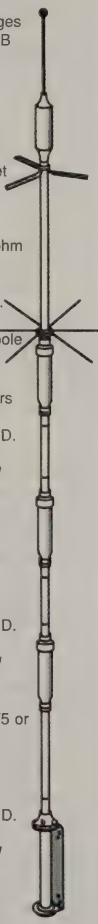
G7-220

**ELECTRICAL**
- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

**MECHANICAL**
- Termination: Type N female
- Length: 10' 2"
- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 ¾"
- Construction: High strength fiberglass & aluminum.

## Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and perma-nent resonance. Our highly accurate traps provide top signal reports and consistent contacts.
Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.



- Broadbanded – low VSWR at band edges
- Power capability – full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

**Model 6-BTV . . . . $189.99**
Bands 10-15-20-30-40 & 75 or 80 meters
Length/weight 24 ft. / 16.5 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters
(100 KHz. On 75 or 80 meters)

**Model 5-BTV . . . . $169.99**
Bands 10-15-20-40 & 75 or 80 meters
Length/weight 25 ft. 1 in. / 16.5 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

**Model 4-BTV . . . . $139.99**
Bands 10-15-20-40 meters
Length/weight 21 ft. 5 in. / 15 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 28 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 1.6:1 at band edges

**Model 30-MTK . . . . $45.99**
30 meter add on kit for the 4 and 5 BTV

**Spirit Series - RepeaterAntenna**

Hustler's ominidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions.
Great for your club or tower use.
We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3,6,9, or 12 dB depending on the frequency.
Custom frequencies available, call for a quote.

**www.new-tronics.com**

**New-Tronics Antenna Corporation**
One New-Tronics Place
Mineral Wells, Texas 76067-9563

Phone: **940.325.1386**
Toll Free: **877.994.9499**
Fax: **940.328.1409**

# VHF and UHF Mobile Antennas

## Unity Gain

**THF . . . . $24.99**

**VHF/UHF Trunk Lip Mount Antennas.**

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector

**UHT-1 . . . . $15.99**

**VHF/UHF Roof/Deck Hole Mount Antenna.**

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U

**UGM . . . . $23.99**

**VHF/UHF Magnetic Mount Antenna**

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector

## Collinear Series Fed Mobile Antennas

**SF-2 144 MHz 3.4 dB . . . . $16.99**
**SF-220 220 MHz 3.4 dB . . . . $16.99**

- Power rating: 100 watts
- 3/8" x 24 thread
- 5/8 wave

**RX-2 144 MHz 3.4 dB . . $26.99**
**RX-220 220 MHz 3.4 dB . . $26.99**
**RX-440 440 MHz 5.0 dB . . $26.99**

- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector

## Collinear High Gain Mobile Antenna

**CG-144 5.2 dB 6 MHz BW . . . . $34.99**
**CG-220 5.2 dB 4 MHz BW . . . . $34.99**

- Power rating: 200 watts
- 3/8"x24 thread
- 5/8 over ¼ wave
- Collinear design

**CGT-144 5.2 dB 6 MHz BW . . . $55.99**
**CGT-220 5.2 dB 4 MHz BW . . . $55.99**

- Coil same as above
- Swivel ball for vertical positioning
- Quick disconnect for easy removal
- Trunk mount base

**MKR-2 Radial Kit . . . . $22.99**

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded coil and contains three radials

## MX Series NMO Magnetic Mount Antenna

**MX-2 144 MHz 3.4 dB . . $34.99**
**MX-220 220 MHz 5.0 dB . . $34.99**
**MX-440 440 MHz 5.0 dB . . $36.99**

- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector

**MX-2B 144 MHz 3.4 dB . . $39.99**
**MX-440B 440 MHz 5.0 dB . . $39.99**

- Same as above but all black coil

## BBG Series NMO Swivel Ball & Spring Antenna

**BBG-144 3.4 dB . . $39.99**
**BBG-440-5 5.0 dB . . $39.99**

- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

**BBGT-144 3.4 dB . . $49.99**
**BBGT-440-5 5.0 dB . . $49.99**

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector

## Dual Band 2 meter/ 70cm Mobile Antennas

Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

**LMC-270 . . . . $31.99**

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only

**MX-270 . . . . $59.99**

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector

## LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

**LMG-144 3.4 dB gain . . $25.99**
**LMG-440-5 5.0 dB gain . . $19.99**

- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin

**LMC-144 3.4 dB gain . . $23.99**
**LMC-440-5 5.0 dB gain . . $19.99**

- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top

**LMB-144 3.4 dB gain . . $22.99**
**LMB-440-5 5.0 dB gain . . $19.99**

- Power rating: 200 watts
- NMO style coil
- Black coil

HUSTLER®

## Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

**DCX . . . . $25.99**

- 40 – 950 MHz
- Vertically polarized
- Mounts to 1 ¼" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included

**DCLB . . . $37.99**

- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC or Pin plug on the other end

## Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

**MRMB . . . $21.99**

- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC or Pin plug connector

**MOTB . . . $21.99**

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC or Pin plug connector

**MORB . . $20.99**

- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC or Pin plug connector

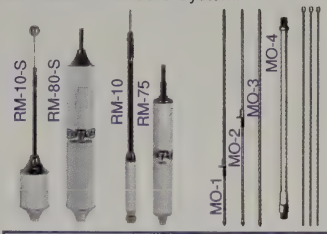
**New-Tronics Antenna Corporation**
One New-Tronics Place
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.328.1409

# Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

| | Model | Band | Power SSB | BW @ 2:1 SWR | Weight lbs | Price |
|---|---|---|---|---|---|---|
| RM-10 | Standard | 10 m | 400 W | 150-250 KHz | 0.41 | $16.99 |
| RM-11 | Standard | 11 m | 400 W | 150-250 KHz | 0.41 | $16.99 |
| RM-12 | Standard | 12 m | 400 W | 90-120 KHz | 0.41 | $16.99 |
| RM-15 | Standard | 15 m | 400 W | 100-150 KHz | 0.42 | $16.99 |
| RM-17 | Standard | 17 m | 400 W | 120-150 KHz | 0.44 | $23.99 |
| RM-20 | Standard | 20 m | 400 W | 80-100 KHz | 0.46 | $23.99 |
| RM-30 | Standard | 30 m | 400 W | 50-60 KHz | 0.84 | $26.99 |
| RM-40 | Standard | 40 m | 400 W | 40-50 KHz | 0.84 | $26.99 |
| RM-60 | Standard | 60 m | 400 W | 40-50 KHz | 0.84 | $28.99 |
| RM-75 | Standard | 75 m | 400 W | 25-30 KHz | 1.05 | $28.99 |
| RM-80 | Standard | 80 m | 400 W | 25-30 KHz | 1.05 | $28.99 |
| RM-10S | Super | 10 m | 1 kW | 250-400 KHz | 1.00 | $25.99 |
| RM-11S | Super | 11 m | 1 kW | 250-400 KHz | 1.00 | $25.99 |
| RM-15S | Super | 15 m | 1 kW | 150-200 KHz | 1.20 | $26.99 |
| RM-20S | Super | 20 m | 1 kW | 100-150 KHz | 1.25 | $30.99 |
| RM-40S | Super | 40 m | 1 kW | 50-80 KHz | 1.80 | $38.99 |
| RM-75S | Super | 75 m | 1 kW | 50-60 KHz | 2.10 | $53.99 |
| RM-80S | Super | 80 m | 1 kW | 50-60 KHz | 2.10 | $53.99 |




**Mobile HF Antennas**
**Hustler Masts**

**MO-1 . . . . $33.99**
Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

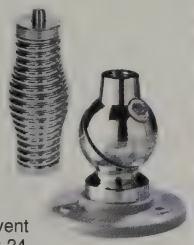
**MO-2 . . . . $33.99**
Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

**MO-3 . . . . $25.99**
Mobile mast, 54" length, for bumper. fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

**MO-4 . . . . $21.99**
Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

**Professional Chrome Series**

**C-32 . . . . $12.99**
Chrome plated 1 ½" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.

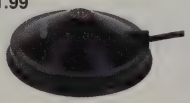


**C-30 . . . . $12.99**
Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas

**C-29 . . . . $19.99**
Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas

**Resonator Spring**
**RSS-2 . . . . $12.99**
Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.

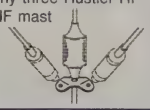
**Magnet Mount . . . . $21.99**
**MBM "Super" Magnet**



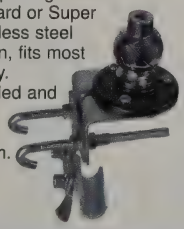
- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for VHF/UHF antennas up to 48".

**Quick Disconnect**
**QD-2 . . . . $21.99**
100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.

**VP-1 . . . . $6.99**
Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



**Bumper Mount BM-1 . . . . $23.99**
Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



**Professional Stainless Steel Series**

**SSM-1 . . . . $49.99**
Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

**SSM-2 . . . . $28.99**
Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

**SSM-3 . . . . $26.99**
Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.

**HLM . . . . $24.99** Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

**TLM . . . . $23.99** Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

**HOT . . . . $25.99** Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/Ucoax with PL-259 connector.

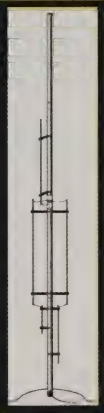
**RVM . . . . $22.99** Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

# GAP : THE PERFECT ANTENNA

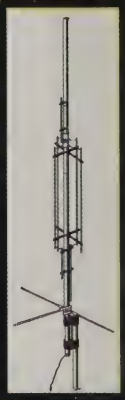
FOR ALMOST TWO DECADES GAP HAS STATED THERE IS NO PERFECT ANTENNA. NO SINGULAR ANTENNA CAN DO IT ALL. THAT IS WHY WE DESIGNED A FAMILY OF ANTENNAS THAT UTILIZE THE PATENTED (#5,592,183), GAP TECHNOLOGY, TO GIVE YOU OPTIONS. WITHIN THIS FAMILY IS THE ANTENNA OR ANTENNAS RIGHT FOR YOU... IF DEED RESTRICTIONS OR VISABILITY ARE A PROBLEM ...TAKE A LOOK AT THE EAGLE DX. IF YOU ARE LOOKING FOR A SIMPLE GENERAL COVERAGE ANTENNA WITH CAPTURE AREA.. CONSIDER THE CHALLENGER DX. WHAT ABOUT A LOW BAND ANTENNA WITH GREAT 40M AND 80M PERFORMANCE ?..THEN THE VOYAGER DX IS WORTH YOUR ATTENTION . IF YOU SEEK THE MOST POPULAR MULTIBAND ANTENNA.. THEN THE TITAN DX WILL END YOUR SEARCH.

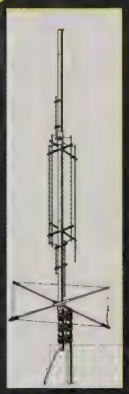
THE GAP TECHNOLOGY ELIMINATES TRAPS, ELECTROMECHANICAL DEVICES, TRANSFORMERS AND COILS, WHICH CAN INCREASE LOSS AND DECREASE RELIABILTY. SIMPLICITY IN DESIGN , RESULTS IN A VERY USER FRIENDLY ASSEMBLY PROCESS. SLIDE ONE TUBE OVER ANOTHER UNTIL THE BIG HOLE LINES UP WITH THE LITTLE AND INSERT A SCREW . A GAP IS PRETUNED, WILL HANDLE 1500 WATTS PEP AND PROVIDES INSTANTANEOUS COVERAGE WITH A VSWR UNDER 2:1 ACROSS THE ENTIRE BAND. *

**CHALLENGER DX**
2m,6m,10m,12m,15m,20m,40m, & 80m
31.5' tall 21 lbs
Drop in ground mount supplied
3 counterpoises required 25' long
* VSWR under 2:1 on 80m (3.8MHz)

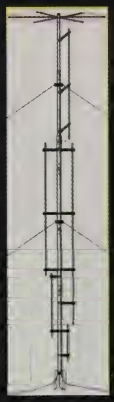


**EAGLE DX**
10m,12m,15m,17m,20m, & 40m
21'tall 19 lbs
Mounts on a 1-1/4" OD mast
No radials required
* 40m limited to 300 watts





**TITAN DX**
10m,12m,15m,17m,20m,30m,40m, & 80m
25' tall 25 lbs
Mounts on 1-1/4" OD mast
No radials required
* VSWR under 2:1 on 80m (3.8MHz)



**VOYAGER DX**
20m,40m,80m, & 160m
45'tall 39lbs
Supplied with hinged ground mount
3 counterpoises required 57' long
* VSWR under 2:1 on 160m (1.9 MHz)

CATCH THE WAVE

GAP ANTENNA PRODUCTS

# GAP : ANTENNA ACCESSORIES FOR ALL

## QUICK TILT

THE EASY WAY TO RAISE AND LOWER YOUR ANTENNA , SUPPORT MAST OR FLAGPOLE. WORKS WITH MOST ANTENNAS

QUICK TILT – GROUND MOUNT

ACCOMODATES 1 1/4"-2" OD MAST

QUICK TILT – LADDER MOUNT

STAINLESS STEEL & ALUMINUM CONSTRUCTION

## GUY KITS

INSURE YOUR ANTENNA OR SUPPORT MAST AGAINST THE ELEMENTS WITH A GUY KIT

STAINLESS STEEL & ALUMINUM CLAMP
3/32" UV PROTECTED BLACK DOUBLE BRAIDED POLYESTER ROPE



*See Price Guide for pricing on all GAP's products*

ANTENEX

# Commercial Antennas for the Serious Radio Amateur

***Make Antenex your choice for mobile and fixed antennas plus accessories***

UHF

***Patented Field Diversity!***

**Phantom® Antennas.** The unique patented Phantom® is a tough whipless designed antenna for indoor or outdoor applications*. The Phantom® revolutionary design features patented field diversity technology with both vertical and horizontal polarization components. This gives the antenna frequency agility, low visibility, wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications. Requires NMO mount.

[illegible] **VHF Antenna** covers 142-164 MHz (tunable), black radome is 3.30" high. Unity gain. **$59.99**

TRAB-4303 **UHF Antenna** covers 430-450 MHz. Black radome is 3.30" high. 3dB-MEG gain **$29.99**

## Traditional Mobile Antennas

[illegible] **VHF Wideband Antenna.** Base loaded 5/8 wave covers 144-174 MHz, 3dB gain, 49" tapered whip. Requires NMO mount (Black) **$39.99**

[illegible] **VHF 5/8-Wave Broadband.** Self tuning, 144-156 MHz, 3dB gain, 47" tapered whip (Black) **$49.99**

[illegible] **UHF Wideband.** Self tuning closed coil collinear. 440-470 MHz, 5dB gain, 32 1/8" tapered whip. Requires NMO mount. (Black) **$49.99**

[illegible] **Broadband.** 5/8-wave, no ground plane. Base loaded, 144-174 MHz, 2.4dB gain, 49" tapered whip. **$39.99**

BB-4303 **UHF 5/8-Wave.** Covers 430-450 MHz, 3dB gain, 11.81" straight whip. Requires NMO mount (Black) **$34.99**

AB-FT **Broadband 1/4-Wave.** Tunable, 118-896 MHz, unity gain, Requires NMO mount. **$16.99**

AB-SCANC **Scanner Antenna.** Closed coil collinear for 150/450/800 MHz receive only. Requires NMO mount (Black) **$29.99**

CB-144/440C **Dualband VHF/UHF.** Closed coil, 36", collinear covers 144-148, 440-450 MHz, 2/5dB, 200W. Requires NMO mount. (Black) **$49.99**

## Mounts

MB-8PST **Permanent Brass Hole Mount** (NMO). Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Comes with 17' RG-58A/U stranded cable, Teflon® PL-259 connector **$15.99**

GB-8PSTI **NMO Magnetic Mount.** For temporary vehicle installs. High strength magnet (90 lbs pull) with protective mylar sole prevents scratches. With 12' RG58A/U cable and Teflon®, PL-259 connector. (Black) **$29.99**

LBMB-9034 **"L" Bracket for Mirror Mount.** Strong, extruded aluminum. Accepts various 3/4" hole mounts. (Black) **$10.99**

VTPM **Plate Mount.** 1" thick NMO plate mount (UHF barrel) **$15.99**

TM-8PST **Mini-Trunk Lid Mount** with 17' RG58A/U stranded center conductor cable. UHF Teflon® PL-259 connector **$29.99**

*U.S. Patent Nos. 5,977,931; 6,292,158; and other patents pending.

**NOTE: All FG antennas require FM-2 mount.**

## Fiberglass Omnidirectional Antennas

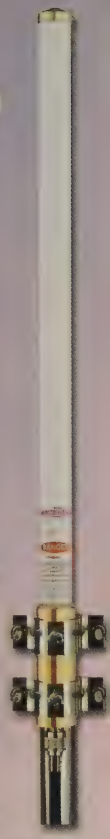
FG-1440 **VHF unity gain,** 144-148 MHz, 150 watt max, 92" Fiberglass Omnidirectional base station antenna. White high density fiberglass with gold anodized sleeve and cap. N female connector **$119.99**

FG-1443 **VHF 3dBd gain,** 140-144 MHz, 150 watt max, 107" Fiberglass Omnidirectional base station antenna. White high density fiberglass with gold anodized sleeve and cap. N female connector **$199.99**

FG-4403 **UHF 3dBd gain**, 440-450 MHz, 150 watt max, 44" Fiberglass Omnidirectional base station antenna. White high density fiberglass with gold anodized sleeve and cap. N female connector **$149.99**

[illegible] **UHF 5dBd gain**, 440-450 MHz, 150 watt max, 76" Fiberglass Omnidirectional base station antenna. White high density fiberglass with gold anodized sleeve and cap. N female connector **$199.99**

FM-2 **Heavy Duty Base Mounting Bracket**. For FG Antennas Extruded aluminum, 1 pair **$29.99** REQUIRED



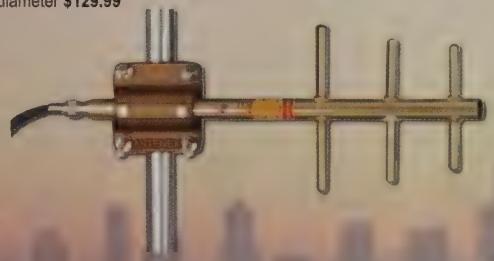
## Gold-Annodized Directional Yagis

Y-1363 **3-Element VHF.** Tunable 136-150 MHz, 7.1dBd gain, 17dB front-to-back ratio. Rated for 500W. N female connector. Assembly and tuning required. Mounts on mast up to 2-1/2" diameter **$119.99**

Y-1365 **5-Element VHF.** Tunable 136-150 MHz, 9.2dBd gain, 20dB front-to-back ratio. Rated for 500W. N female connector. Assembly and tuning required. Mounts on mast up to 2-1/2" diameter **$169.99**

Y-4303 **3-Element UHF.** Covers 430-450 MHz, 7.1dBd gain, 17dB front-to-back ratio. Rated for 300W. Fully welded. Computer optimized and internally matched - wide bandwidth no tuning. End-of boom N connector feed with a weather proof internal transmission line feeding the driven element. Mounts on mast up to 2-1/2" diameter **$99.99**

Y-4305 **5-Element UHF.** Covers 430-450 MHz, 9.2dBd gain, 20dB front-to-back ratio. Rated for 300W. Fully welded. Computer optimized and internally matched - wide bandwidth no tuning. End-of boom N connector feed with a weather proof internal transmission line feeding the driven element. Mounts on mast up to 2-1/2" diameter **$129.99**



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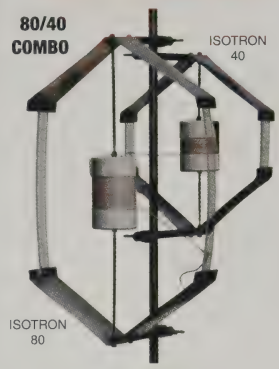
# ISOTRON
## BILAL COMPANY

*Simple & Effective...*
**ANTENNAS FOR VERY LIMITED SPACE**




- Easy, quick, and simple installation.
- Excellent portable operation for emergencies, RV's, field day, motels, Maritime operation.
- Not dependent on a grounding system.
- Tunes and performs without radials.
- Unobtrusive appearance, making a very disreet looking installation.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.

ISOTRON 160C

**Common Specifications:** 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50–75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Cast acrylic and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

| Model | 160C | 80 | 40 | 20 | 15 | 10 | 6 |
|---|---|---|---|---|---|---|---|
| Band | 160 meters | 80 meters | 40 meters | 20 meters | 15 meters | 10 meters | 6 meters |
| Freq. (MHz) | 1.8-2.0 | 3.5-4.0 | 7.0-7.3 | 14-14.35 | 21-21.450 | 28-30 | 50-54 |
| hxwxd (in.) | 114x16x15 | 32x16x15 | 22x16x15 | 21x8x4 | 21x1½x4 | 16x1½x4 | 16½x2x4 |
| BW | 100 kHz | 110 kHz | 250 KHz | 350 kHz | 450 kHz | 1 MHz | 1.25 MHz |
| Windload (sq. ft.) | 1.697 | 1.37 | 1.0 | 0.23 | 0.23 | 0.16 | 0.13 |
| Weight | 7 lbs. | 6 lbs. | 4 lbs | 2 lbs | 2.0 lbs | 1.5 lbs | 1.5 lbs. |
| **PRICE** | **$173.99** | **$98.99** | **$88.99** | **$78.99** | **$78.99** | **$78.99** | **$78.99** |

ISOTRON 20

20/15/10M
COMBO

40/20M
COMBO
NEW

**80/40 COMBO** – (Top/left) Same as individual model specifications above. Operate 80 and 40 meters using only one feed line Dim: 32"h x 16"w x 30"d; 10 lbs..... **$177.99**

**20/15/10 COMBO** – Covers same as individual model specifications Operates 20, 15 and 10 meters using just one feed line. Dim: 4"h x 32"w x 30"d; 10 lbs ..... **$198.99**

**40/20 COMBO** – Offered because the 40 & 20M bands were found to be extremely useful during the 2005 disasters. A new enhanced coil design makes tuning easier & more tolerant to higher power. Dim: 22"h x 16"w x 32"d; 6 lbs.....**$167.99**

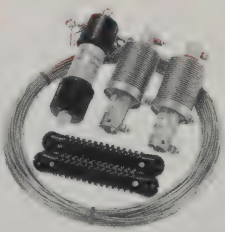
*SPECIAL ORDER!* – **You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.**

Off
Center-Fed
Six Band
Antenna

**OCF** – Covers 75/80, 40, 20, 17, 12 & 10M without an antenna tuner. Rugged broadband design features an integral 6:1 balun and flexible, 65 strand 12 ga. PVC coated wire. The balun is permanently sealed to protect against the elements and is internally crimped and soldered to a silver/teflon® SO-239 connector; HD stainless eyebolt for attaching a support rope. A full 135 ft. long (45/90 ft. sections); instructions for erecting in only 68 ft. but with 40, 20 & 10M operation only. Rated 300W CW/SSB, fully assembled. Wt: 7 lbs..... **$189.99**

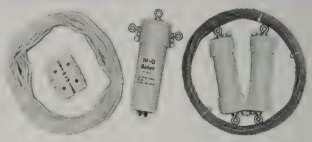
# UNADILLA

**W2AU/W2VS**



5 Band Antenna Kit Resonant on the 40 and 80 meter bands. On 10, 15 and 20 meters the SWR will be higher, typically 2:1 to 4:1, and with some transceivers a transmatch may be necessary to operate these bands. Rated 2KW PEP and 110 ft. long. Kit includes a pair of 40 meter traps, W2AU balun, end insulators and 120 feet of #14 stranded antenna wire..... **$85.99**

# Van Gorden Engineering



**Single Band Dipoles** – Complete with Hi-Q 1:1 balun, #14 stranded copper antenna wire, plastic insulators, and 100 ft. of nylon rope. Rated for full legal power (2kW). May be used in a flat-top or in an inverted-V configuration.

**D-80** – 80 meters, 130 feet long ..... **$41.99**
**D-40** – 40 meters, 66 ft ..... **38.99**
**D-20** – 20 meters, 33 ft ..... **36.99**
**D-15** – 15 meters, 22 ft..... **35.99**
**D-10** – 10 meters, 16 ft ..... **34.99**

**Shortened Dipoles** – Construction is the same, and includes traps as shown above.

**SD-80** – 80m, 90 ft..... **$46.99**
**SD-40** – 40m, 45 ft ..... **44.99**

**Multiband Dipoles**

**ALL BANDER** **All Bander Dipole** – Covers 160 to 10M using an antenna tuner with balanced output. Full 135 ft. long (or less, as an inverted V or sloper). Trim to fit small lots. Assembled, with #14 gauge copper wire, center and end insulators and 100 ft. of 450Ω balanced line. 2KW PEP... **$35.99**

**SHORTY** **All Bander** – As above, but with loading coils to shorten the length to 70' overall.. **$55.99**

**G5RV** – A unique dipole configuration that covers 3.5 to 30 MHz without traps, plus covers 1.8 MHz as a Marconi-type antenna using an antenna tuner. Consists of a 102 ft. flat top with a 31 ft. long section of KW twinlead, a combination transformer-coupler and 70 ft. of RG-8X coax and connector. Assembled, rated 2KW PEP ..... **$60.99**

**G5RV-JR** – 7–30 MHz, 52', 17' twinlead... **30.99**
**G5RV-E** – 3.5–30 MHz, 102', 31' twinlead. **35.99**
**G5RV-M** – 1.8–30 MHz, 204', 65' twinlead **60.99**

**Parallel-Wire Multiband Dipoles**

Full-size, trapless multiband dipole performance using separate resonant-length wires for each band attached to a single center 50Ω feed point.

**PD-4010** – 40/20/15/10M, 66 feet long.. **$49.99**
**PD-4020** – 40/20/15M, 66 ft..... **43.99**
**PD-8010** – 80/40/20/15/10M, 130 ft..... **55.99**
**PD-8040** – 80/40/15M, 130 ft..... **51.99**

## VECTRONICS
### SWR/POWER METERS

**PM-30HF** – Range: 1.8 to 60 MHz. Displays peak and average forward and reflected power, and SWR simultaneously on a dual movement back-lit cross-needle meter. Power Ranges: 300 and 3000 Watts. SO-239 connectors. Dim: 5.3"w x 3.5"h x 5.75"d; 1.2 lbs..... **$79.99**

**PM-30UV** – Same features as the PM-30HF, but covers 144/220/440 MHz bands. 30/300W ranges. SO-239 connectors..... **$89.99**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# Lakeview Co., Inc.

## WD4BUM HAMSTICKS®

**Two-Piece Monoband Mobile Antennas** Hamstick 75 thru 10 meter models consist of a 47 inch long x 1/2 inch diameter fiberglass base section with the loading coil wound over its length and covered with black PVC shrink tubing. It's fitted on one end with a 3/8" X 24" brass base fitting that fits most amateur mobile mounts. A black 48 inch tempered stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6 meter model has a 34 inch base section and whip. Convenient frequency vs length graphs are included with the instructions.

If the antenna shows a SWR of 1.5 to 1 or better, no matching should be necessary. However, if it is, which may be especially true on 40 and 75m, you can capacitively match the base using values recommended in the instructions. If you frequently change bands you can use the **WD4BUM INDUCTI-MATCH (IM-1)** which consists of an impedance matching coil that simply installs at the base of the antenna. Using the supplied clip lead, you just tap up the coil for the best match.

**Models**

**9106** (6M) **9110** (10M) **9112** (12M)
**9115** (15M) **9117** (17M) **9120** (20M)
**9130** (30 M) **9140** (40M) **9160** (60M)
**9175** (75M)

All Hamsticks ..... each **$29.99**

**901 Dipole Mount** – for 2 Hamsticks .. **16.99**
**IM-1 Inducti-Match** ..... **22.99**
**TM-1 License Plate Mount** – 3/8" x 24" **49.99**

## YAESU

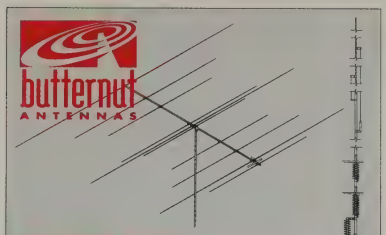
*Choice of the World's top DX'ers™*

**ATAS-25 HF/VHF/UHF QRP Field Antenna** – Perfect for portable use with the Yaesu FT-100D, FT-817, FT-857 or FT-897. Covers 7, 14, 21, 28, 50, 144 and 430 MHz with band switching accomplished by changing supplied elements and adjusting coils. Matched SWR is less than 2.0:1; Power: (HF/6M) 100W SSB/CW @ 50% duty cycle (50W AM/FM); (144/430 MHz) 50W all modes; Requires camera-type tripod (not supplied); SO-239 base for PL-259; Dim: 7.2 ft. high maximum; 2.05 lbs ..... **$249.99**

**ATAS-120 HF/6/2/430 Motorized Tuning Antenna** – Motor resonates the radiating element for lowest SWR using control voltages sent via the coaxial cable from Yaesu transceivers equipped for the ATAS system. Without duplexer, coaxial cable must be moved manually to correct jack when switching (VHF/UHF). Solid, sliding sections tune 20% faster than original ATAS-100. Mounts directly onto a standard Diamond or Comet mobile mount. Power: 120W maximum; Less than 2:1 matched VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs ..... **$319.99**

**ATBK-100 VHF/UHF Antenna Base Kit** – Not required, generally, unless operating VHF/UHF with the ATAS-120 off-vehicle (on balcony railing, etc.), when it restores low-angle response for enhanced performance. Use with base mount..... **$99.99**

## butternut ANTENNAS



**SKYHAWK 3X10 Triband Yagi** – A design breakthrough. 3-band, 10-element, 20/15/10M, rust free.. **Drop Ship $999.99**

**HF-2V** 80/40 Vertical – 32 ft. ..... **269.99**
**HF-6VX** 6-Band Vertical – 26 ft. **349.99**
**HF-9VX** 9-Band Vertical – 26 ft. **399.99**

## ICOM

**AH-703 HF/50 MHz Five-Band Antenna** – Designed for convenient portable operation when using ICOM's IC-703 and IC-703PLUS. It covers the 7, 14, 21, 28 and 50 MHz bands with a 1/4-wave design and has a 20 Watt power capacity. The bands are covered by simply changing the supplied coils. The base terminates in a PL-259 connector which requires a PO-style mount. Dim: 4.6 ft. high; 12 oz.... **$199.99**

## TIMES MICROWAVE SYSTEMS

**LMR-400 Low-Loss Flexible Coaxial Cable** – The ideal replacement for RG-8/9913 air-dielectric cables. **Flexible:** Minimum bend radius of 1 in. is easier to handle compared to corrugated copper or smooth wall copper hard-line cables; **Dielectric:** High velocity gas-injected closed cell foam dielectric, 0.208 in.; **RF Shielding:** Bonded aluminum tape outer conductor, overlapped to provide 100% coverage and a 95% overall tinned copper braid. Lowest loss of any RG8/RG213 type cable; **Inner Conductor:** Solid BCCAl, 0.108 in.; **Jacket:** UV protected black polyethylene, 0.405 in.; **Velocity Factor:** 85%; **Loss (100 ft.):** 0.9dB @ 50MHz; 1.5dB @ 150MHz; 1.9dB @ 220MHz; 2.7dB @ 450 MHz, 3.9 dB @ 900 MHz, 6.0dB @ 2000 MHz..... per ft. **70¢**

**LMR-400500** – 500 ft. roll of above .... **$269.99**

**LMR-400-DB Watertight Flexible Coaxial Cable** Same specifications as LMR-400 but incorporates an inert flooding compound that completely eliminates all paths of water migration and ingress for long term reliability (10 year warranty) per ft. **79¢**

**LMR-400DB500** – 500 ft. roll of above **$309.99**

**LMR-400-UF ULTRA-FLEX Coaxial Cable** – Has a stranded center conductor. Very flexible, best used on rotating antenna systems and for jumpers. Loss is 15% greater than LMR-400 ..... per ft. **$1.05**

**LMR-400UF500** – 500 ft. roll of above **$419.99**

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**High Performance Yagis** – Combining the latest computer optimization techniques and decades of design experience by Mike Staal, K6MYC. A wide selection to fit your exact needs.

See Product Locator under M²

**HO Loops** – At times when using highly directional VHF or UHF antennas, there are signals you cannot hear off the sides and back. The addition of a horizontally polarized and omnidirectional **HO-Loop** to your setup will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings. A super mobile antenna! Contacts up to 200 miles not uncommon. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW stacked.

**6M-HO-LOOP**
50-50.3 MHz, 29.5 in. square ..... **$119.99**

**2M-HO-LOOP**
144-144.5 MHz 11.25 in. square ..... **$52.99**

**222-HO-LOOP**
220-224 MHz, 7.75 in. square ..... **$52.99**

**432-HO-LOOP**
430-436 MHz, 4.4 in. square ..... **$52.99**

## SOLARCON ANTENNAS A99

**A-99 10M Base Antenna with Twin Ring Adjust-A-Match Tuning** – Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCON sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers the resonant frequency.

Rugged, three-piece, white fiberglass construction with triple-plated brass fittings. It's easy to assemble and install. The optional GPK-1 ground plane radial kit makes it perform even better!

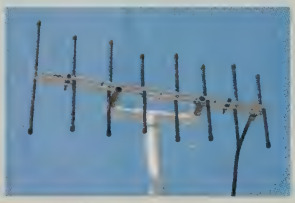
Full 10 meter band coverage; 3 dBi gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Ω coaxial cable with SO-239 connector. Overall length is 17 ft. 8 in..... **$79.99**

**GPK-1 Groundplane Kit** Use with the A-99 for 30% more power gain and lower angle of radiation. Collar and 4 fiberglass radials... **$59.99**

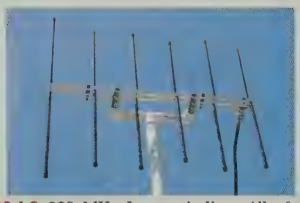
# ELK ANTENNAS

**Log Periodics – Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!**

**2M/440-L5** 2M/440 MHz Log Periodic – Dual band operation without a duplexer, and only one feedline. Great for HT satellite contacts. Change polarity by twisting the mounting assembly to change from vertical to horizontal. Quick assembly and disassembly for portability. Color coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy, boom, black anodized aluminum elements and stainless hardware. **144-148 MHz**; 5 elements; 6.8dbd gain)/ **440-450 MHz**; 7dBd gain; 1:1 SWR; 20+dB F/B ratio; rated 200W (2M), 100W (440); 24 in. boom; 1.3 lb . **$89.99**



**440-L8** 440 MHz Log Periodic – The latest model with increased gain and wide bandwidth. It's really great for 2M fox hunting, allowing radiation of the 3rd harmonic for a harder to find signal. Color coded boom and elements for easy, portable assembly and disassembly. Uses 6061-T6 aluminum alloy and stainless steel hardware provides strength and long life. **420-450 MHz**; 8 elements; 8dB gain; 1:1 to 1.5:1 SWR; rated 200W; 24 in. boom; 12 oz.. **$81.99**



**220-L6** 220 MHz Log periodic – All of the great Elk Antenna log-periodic features in a popular 220 MHz version. 222-225 MHz; 6 elements; 7.3 dB gain; 1:1 SWR; 28+ dB F/B ratio; 24 in. boom; 1.3 lbs..... **$81.99**

**ELKBAG** Canvas Carrying Bag – For convenient transporting of all ELK antennas. **$24.99**

# OUTbacker System

Provides efficient, multiband performance in a rugged, lightweight, single whip design. Its sleek, low profile design allows use with standard 3/8-24 bases and trunk-lip mounts.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators, or retuning.

A convenient way to use mobile antennas in Base or Portable applications with greatly improved efficiency from the 36 x 3 in. foldout ground feet that form a large capacitor with the earth. Makes an ideal condo, limited space antenna System that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds; no holes, no concrete required.

**See Price Guide for listing of all OUTbackers and Accessories**

## KENT Keys

Produced by R.A. Kent Engineers for OUTbacker. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.

**SK-1** – Straight Morse Key..... **$129.99**
**SP-1** – Single Paddle Morse Key..... **$139.99**
**TP-1** – Dual Paddle Iambic Key..... **$149.99**
**VK-1 The "Vail Lever Correspondent" Key** A faithful reproduction, accurate to the type of hardware used during the mid-1800s, of the first full mechanism telegraph hand key made for Samuel F.B. Morse by Alfred Vail in 1844. Hand crafted and serialized – a collectable! ..... **$179.99**

*Find detailed information at:*
www.outbackerantennas.com

# W4RT Electronics

## MOTORIZED ANTENNA CONTROLLERS

**Antenna BOSS** – For **Yaesu** Radios. Makes essentially any motorized antenna "look like" an ATAS-100/120 to the FT-100/D, 847, 857, & 897 radios, allowing use of the radio's TUNE button for automatic tuning (6 to 40 meters). Works with 6-12 VDC motors drawing <750 mA, no special sensors in antenna required, no programming or computer required. BOSS works to full legal limit as well as with antennas having a shunt coil. The radio powers both the antenna motor and the BOSS..... **$149.99**

**Antenna BOSS II** – For **Icom, Yaesu, & Kenwood** Radios. Antenna BOSS II allows essentially any 6 to 160 meter motorized antenna to interface with Icom radios that work with the AH-4 tuner such as the IC-706, MKII, and MKIIG. Works with 12 VDC motors drawing <750 mA running, no special sensors in antenna required, and no programming or computer required. Works with radio's TUNE button. The BOSS II measures frequency and SWR. Advanced algorithms provide excellent auto-resonating (tuning) and mitigate motor overshoot by using dynamic braking and reducing motor speed during final antenna adjustment. Includes cable for connection to the IC-706 series radios..... **$149.99**

To use the **BOSS II** with **KENWOOD** radios such as the TS-50 and TS-480, requires the LDG K-OTT and the KB-2 cable. Tuning is activated by pressing the radio's TUNE button (tuning on 6 meters if radio is external-tuner capable on this band).

LDG **K-OTT $59.99** / W4R **KB-2 $10.99**

To use the **BOSS II** with **YAESU** radios; FT-100/D, 857 & 897, requires the W4RT-modified LDG Y-OTT (YB-OTT) and the YB-2 cable. Tuning is activated by pressing the supplied TUNE button.

W4R **YB-OTT $59.99** / W4R **YB-2 $10.99**

### One-Plug Filters

Direct plug-in CW and SSB filters for Yaesu FT-817, 857 and 897 radios. The 500-Hz CW filter contains a 7-pole Collins Mechanical Filter identical in performance to the Yaesu YF-122C. The 2.3-kHz SSB filter contains a 10-pole Collins Mechanical Filter identical to the Yaesu YF-122S. Proper filter termination and connectors are integral part of the W4RT-filter assembly so you install and remove these filters just as you do with the Yaesu filter. Each filter contains the coding for the FT-857 or FT-897 to recognize it as a 500 Hz or 2.3 kHz filter.

**OPF-CW $114.99** / **OPF-SSB $129.99**

### Speech Compressor

**OBP** (One BIG Punch) for the Yaesu MH-31 microphone used with the FT-817, 847, 857, and 897. An AF-based compressor specifically configured to provide a 5dB increase in talk power while maintaining good audio quality (articulation) for communications. The unit can be mounted inside the MH-31, requires no additional electrical power, and turns on or off with the MH-31's Tone switch. Works with most microphones having 5 VDC available..... **OBP-STD $49.99**

**OBP-UNIV** – The OBP for microphones having 7-12 VDC available, such as the Yaesu MH-36 used with the FT-100/D or the Icom HM-103 with the IC-706 radios ..... **$49.99**



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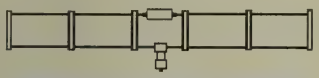
## Barker & Williamson

### BROADBAND ANTENNAS

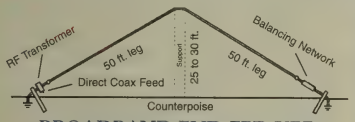
Field proven broadband HF antennas that operate all frequencies continuously from 1.8 to 30 MHz without an antenna tuner, plus 6 meters. The single antenna solution for amateur operation and more. If you are participating in various programs such as **MARS, ARES, RACES** or **CAP** these antennas will work all of your frequencies with a VSWR of 2:1 or better without measurements or tuning. It's a low noise design with outstanding receive capability. Better performance than any vertical and very reliable.



### BROADBAND FOLDED DIPOLES

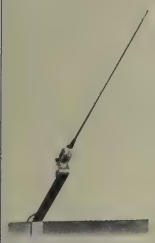
These antennas operate all HF frequencies continuously within their design range without an antenna tuner, plus 6M with a tuner. Install as flat top, inverted vee, or sloper. Constructed of #14 stranded copperweld wire. Unbalanced 50 ohm input with SO-239 connector. Handles 2KW PEP. Shipped completely assembled.

**BWD-20** – 14-30 MHz, 20 ft. long..... **$219.99**
**BWD-45** – 7-30 MHz, 45 ft. long..... **$219.99**
**BWD-65** – 4-30 MHz, 65 ft. long..... **$229.99**
**BWD-90** – 1.8-30 MHz, 90 ft. long..... **$229.99**
**FDMK Folded Dipole** – 3-pole mtg. kit.... **$45.99**



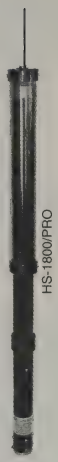

### BROADBAND END-FED VEE

**AC-1.8-30** – Unique design covers 1.8-30 MHz continuous with less than a 2:1 VSWR without using an antenna tuner + 6M with a tuner. Installs with termination at both ends to grounded stakes (not included), and the center about 25 ft. above the ground. Omnidirectional, high angle radiation at lower frequencies. Increased angle from 5-15 MHz; above 15 MHz, more directional in the line of the antenna wire. In limited space, wire may be shortened without greatly affecting the VSWR, but lowering radiation efficiency. It's extra quiet to capture weak signals. Handles 2KW PEP. Comes fully assembled with #14 stranded copperweld wire, 110 ft. long. Weighs 7 lbs ..... **$229.99**



**AP-10B Window/Portable 300W PEP Antenna** – A quick and dependable antenna system when larger antennas cannot be used. Covers 2 through 40 meters clamped to a window ledge, a railing or table. Tunes to low VSWR by tapping a fly lead up or down the base coil and adjusting the position of the supplied counterpoise wire. The whip extends to 51 in. during operation, collapsing to less than 24 in., easily fits in a suitcase or briefcase for travel. Use one to get on the air regardless of covenant restrictions. Supplied with mounting bracket and clamp, counterpoise wire and 10 ft. of coax..... **$89.99**

## High Sierra AntennAs




**PLATINUM PACK Continuous coverage Motor Driven HF Antenna Package** – The HS-1800/PRO antenna provides continuous tuning from 3.5–30 MHz with a typical VSWR of less than 1.5:1 across the entire tuning range. Removing the supplied 6 ft. whip changes the range to 6.9–60 MHz. The "best antenna" for general mobile use because of its light weight, high performance and ability to cover the entire HF spectrum. Great for stealthy operation at antenna-restricted QTHs, ARES/RACES and more!

The complete package, ready to install, includes the HS-1800/PRO, black powder coat finish with black stainless-steel whip, black universal mounting bracket, quick-disconnect manual control box, RF filter assembly and installation kit (20 ft. of control cable, wire ties, (2) PL-259's, 3 ft. of ground strap and connector sealing material). **$495**

**SIDEKICK Continuous Coverage, Motor Driven HF Antenna** – Similar in design to the HS-1800/PRO but, only 15 in. tall and comes with 3 ft. whip. Covers 3.5-60 MHz with a 200W power rating. Includes manual control box, RF filter assembly and 3/8-24 threaded base to use with a mounting bracket . **$375**

**SIDEKICK I-BOX Continuous Coverage, Motor Driven HF Antenna** – Same as Sidekick, but includes a semi-automatic I-box controller for Icom transceivers: IC-703, 706, 718, 736, 746, 756, 765 and IC-775 with no external power needed. To tune, just press the switch on the control box. The transceiver automatically transmits with low power. When the SWR drops down, release the switch. Typical tune-up is less than 10 seconds ..... **$425**

**I-BOX7000** I-BOX for Icom IC-7000..... **$110**

**Motorized Antenna Accessories:**

**HS-120 Capacity Hat** – Six stainless steel rods with aluminum tips inserted into a brass hub. Hat diameter is 1.5 ft. Installed on the HS-1800, it's roughly equal to adding 6 more ft. of whip section ..... **$50**

**HS-202CL Layback Adapter** – Fits a 2 x 2 in. trailer hitch receiver. Removing a pin allows the vertical rod to lay back at a 45° angle for access to trunk, rear hatch or tail gate. Black powder coat..... **$100**

**HS-214CL Layback Adapter** – Same as 202CL, but fits 1.25 x 1.25 in. hitch receiver ..... **$100**

**STAKE HOLE MOUNT** – Used to install the Sidekick and other antennas into the stake hole on a pickup truck (bed sidewall). It has an SO-239 with a 3/8-24 thread for the antenna connecton..... **$27**

**TRIPOD DELUXE** – A strong aluminum adjustable 6 ft. tripod, the perfect antenna mount for the next trip or emergency. Includes a stainless angle 3/8-24 thread antenna mount with SO-239 connector, (8) 10 ft. long wire radials, and a nylon carrying bag with shoulder strap and draw string close .... **$100**

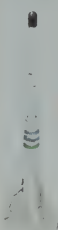
**HITCHIN' POST** – Mounts under a trailer hitch-ball. Made from thick stainless steel, black power coated. Standard 3/8-24 thread antenna mount, SO-239 connector and ground screw..... **$40**

## Shakespeare®

### MARINE ANTENNAS

**4187 Ratchet Mount** – Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1 in. x 14 male threads..... **$39.99**

**396-1 Center-fed 1/2-wave Coaxial Sleeve Antenna** – A Basic one-section, 5 ft., 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. Rated for 50W and 5 MHz bandwidth. Shakespeare white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; 15 ft. RG-58 cable with PL-259. Use 4187 ratchet mount..... **$79.99**




**420 Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna** – Economical, a good basic one-section, 5 ft. 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. Rated 50W and 5 MHz bandwidth. White Shakespeare fiberglass; Brass/copper elements; Polycarb ferrule; 15 ft. RG-58 cable with PL-259... **$79.99**

**5101 Centennial™ End-fed Antenna with Matching Stub** – High-end features in an 8 ft. antenna with a brass element and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun. Rated 50W, 5 MHz bandwidth with 6dB gain. One section; Brass and copper elements; Chrome-plated brass ferrule with standard 1 in. x 14 thread. Includes 15 ft. RG-58 cable with PL-259 connector. Use with 4187 ratchet mount ..... **$69.99**

**5206-C End-fed Antenna, Matching Stub** – Economical, lightweight and self-supporting. An 8 ft. one-section antenna for good communications where long range is not the predominant factor. Rated 50W, 3 MHz bandwidth and 6dB gain. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 15 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount..... **$59.99**

**5202 Collinear-phased 5/8 Wave Elements** – A rugged, professional quality 8 ft. one-section antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. Rated 50W, 3 MHz bandwidth and 6dB gain, DC grounded. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 20 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount .... **$99.99**

**5215 Squatty Body™ VHF Marine Antenna** – A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. One-section, end fed 1/2-wave, 36 in. long. Rated 50W, 7 MHz bandwidth and 3dB gain. It features a hermetically sealed, tin-plated copper wire coil, stainless steel body and whip. SO-239 connector and stainless steel "L" bracket mount..... **$49.99**

# CRANK IT UP!

## MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor-friendly. The slender design gives a clean flagpole-like appearance while allowing antennas from 15.3 to 22 sq. ft. in 50mph winds, depending on the model.

| Model | Height max./min. | Sections | Weight (in lbs.) | Section OD top/bottom | Base | Price |
|---|---|---|---|---|---|---|
| MA-40 | 40'/21'6" | 2 | 242 | 3"sq./4.5" | 3'x3'x4'6" | $1109.99 |
| MA-550* | 55'/22'1" | 3 | 435 | 3"sq./6" | 3.5'x3.5'x5' | $1719.99 |
| MA-770* | 71'/22'10" | 4 | 645 | 3"sq./8" | 5'x5'x5'6" | $2829.99 |
| MA-850* | 85'/23'6" | 5 | 943 | 3"sq./10" | 5'x5'x6' | $4379.99 |

*Also available as tower/heavy-duty motor drive (positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. 770 and 850 require MAB or MARB series base.

## FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotor). Visual impact is reduced and antenna servicing is made easier. The TMM Series are lightweight, freestanding, and allow up to 59 sq. ft. of antenna in 50mph winds.

| Model | Height max./min. | Sections | Weight (in lbs.) | Section OD top/bottom | Base | Price |
|---|---|---|---|---|---|---|
| TMM-433SS | 33'/11'4" | 4 | 315 | 10"/18" | 4'x4'x4'6" | $1489.99 |
| TMM-433HD* | 33'/11'4" | 4 | 400 | 12.5"/21.5" | 4'x4'x5' | $1799.99 |
| TMM-541SS* | 41'/12' | 5 | 430 | 10"/21.625" | 4'x4'x5' | $1959.99 |

*Will accept the MDP-750 motor drive, factory installed only.

## FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotor plate and base hardware and require no guying. All bases will accept the TRX Series raising fixtures.

| Model | Height max./min. | Sections | Weight (in lbs.) | Section OD top/bottom | Base | Price |
|---|---|---|---|---|---|---|
| TX-438 | 38'/21'6" | 2 | 355 | 12.5"/15" | 5'x5'x5' | $1399.99 |
| TX-455 | 55'/21'6" | 3 | 670 | 12.5"/18" | 5'x5'x6' | $1929.99 |
| TX-472* | 72'/22'8" | 4 | 1040 | 12.5"/21.625" | 5'x5'x6'6" | $3169.99 |
| TX-489MDPL** | 89'/23'4" | 5 | 1800 | 12.5"/25.625" | 5'x5'x8' | $8269.99 |

*Also available as a tower/heavy-duty motor drive (with positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. **Comes with heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control.

## FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 70 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

| Model | Height max./min. | Sections | Weight (in lbs.) | Section OD top/bottom | Base | Price |
|---|---|---|---|---|---|---|
| HDX-538 | 38'/21'6" | 2 | 600 | 15"/18" | 5'x5'x6' | $1659.99 |
| HDX-555 | 55'/21'6" | 3 | 870 | 15"/21.625" | 5'x5'x6'6" | $2899.99 |
| HDX-572MDPL* | 72'/22'8" | 4 | 1600 | 15"/25.625" | 4'x4'x8' | $7579.99 |
| HDX-589MDPL* | 89'/23'4" | 5 | 2440 | 15"/30.625" | 5'x5'x8' | $9919.99 |
| HDX-5106MDPL* | 106'/24'8" | 6 | 3805 | 15"/37.125" | 5'x5'x9' | $20849.99 |

*Includes heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control (included with 589MDPL and 5106MDPL) or RMC-1000 remote control.


US TOWER CORPORATION

Headquarters
1220 N Marcin St.
Visalia, CA 93291
(559) 733-2438

Second Location
702 E. North St.
Lincoln, KS 67455
(785) 524-9966

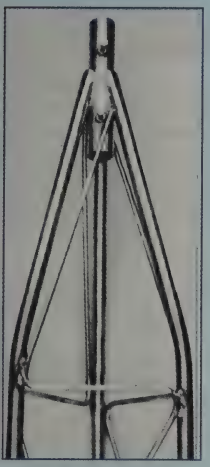

US Tower Accessories listed in the Price Guide.

All towers are drop shipped directly from the factory. Additional freight charges apply. Ask for details.

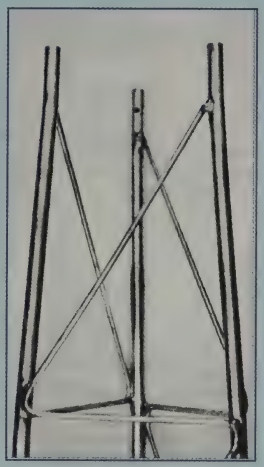
# UNIVERSAL TOWERS

***ALUMINUM, FREESTANDING, SELF-SUPPORTING AT RATED LOAD***

LIGHTWEIGHT • RUST FREE • EASY TO ASSEMBLE • RUGGED STRENGTH
*for* AMATEUR RADIO • TV • FM • INDUSTRIAL • FIRE • POLICE • MARINE



**TOP SECTION**



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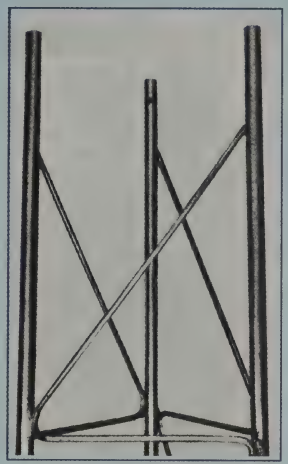
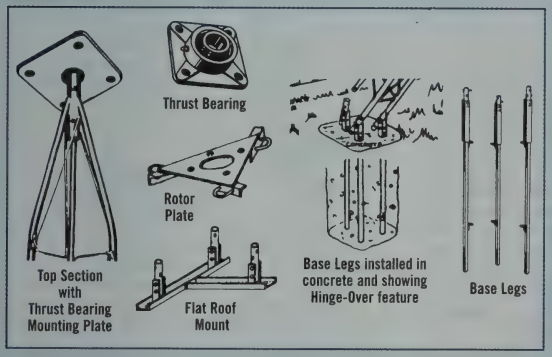
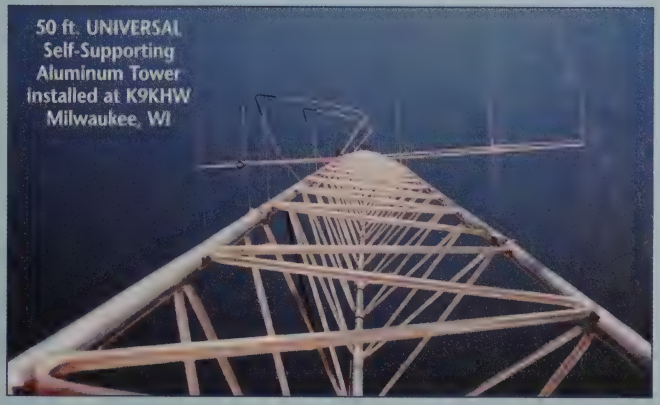


**STRAIGHT SECTION**




**SECTIONS**

Universal Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available 11, 14, 18, 22, 26 or 30 inches wide.

**CHOOSING THE PROPER TOWER**

(1) Determine the projected surface area of the antenna that you intend to mount. This figure is often in the literature that comes with the antenna. Otherwise: standard TV antennas are about 2 sq. ft. in area; 6/10 meter beams and large TV antennas are 5 sq. ft.; 20/40 meter beams are 9 sq. ft.; large 20/40 meter beams or multiple antenna arrays are 18 to 26 sq. ft. Also, when using a rotator add 1 sq. ft. plus 1 sq. ft. for the mast to whatever size antenna you intend to use.

(2) Decide on the tower height that you want. Universal Towers are made in 10 foot sections to give you many possible sizes and the ability to add sections later.

(3) Choose the tower model based on height and windload. The model number is merely the wind loading followed by the height. For example, if your antenna calculation resulted in a tower designed for 5 sq. ft. and you wish it to be 50 ft. high, the model you want is a **5-50**.

*See the Price Guide for Configurations and Prices.*

## No Guys!

**Self-Supporting at the Rated Load**

**BEFORE BUYING A TOWER**
Consider the advantages of –

**ALUMINUM**

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

**UNIVERSAL** offers 10' sections or complete towers ranging from 30 to 100' with a choice of wind load ratings and accessories.

**All towers are drop shipped direct from the factory. Shipment is FOB Mt. Clemens, MI via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.**

# hy-gain ROTATORS

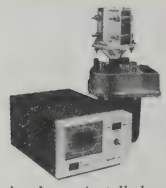
## . . . the first choice of hams around the world!

### The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in..... **$539.99**

**Ham-IV Specifications**

| | |
|---|---|
| Wind Load cap.(inside tower) | 15 square feet |
| **Wind Load (w/mast adapter)** | **7.5 square feet** |
| Turning Power (in lbs.) | 800 |
| **Brake Power (in lbs.)** | **5000** |
| Brake Construction | Electric Wedge |
| **Ball Bearing Assembly** | **Dual race/98 bearings** |
| Mounting Hardware | Clamp plate/steel U-bolts |
| **Control Cable Conductors** | **8** (Belden 8448 or 9405) |
| Shipping Weight (lbs.) | 24 |
| **Effective Moment (in tower)** | **2800 ft/lbs.** |



### The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration, Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility, Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3" . **$1379.99**

**HDR-300A Specifications**

| | |
|---|---|
| Wind Load capacity | 25 square feet |
| **Wind Load (w/mast adapter)** | **N/A** |
| Turning Power (inch lbs.) | 5000 |
| **Brake Power (inch lbs.)** | **7500** |
| Brake Construction | Solenoid operated locking |
| **Bearing Assembly** | **Bronze sleeve w/rollers** |
| Mounting Hardware | Stainless steel bolts |
| **Control Cable Conductors** | **7** (Belden 8448 or 9405) |
| Shipping Weight (lbs.) | 55 |
| **Effective Moment (in tower)** | **5000 ft/lbs.** |

### The TAILTWISTER SERIES II

is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control **$619.99**
**T-2XD** with DCU-1 control..... **$979.99**

**TAILTWISTER Specifications**

| | |
|---|---|
| Wind Load cap.(inside tower) | 20 square feet |
| **Wind Load (w/ mast adapter)** | **10 square feet** |
| Turning Power (in lbs.) | 1000 |
| **Brake Power (in lbs.)** | **9000** |
| Brake Construction | Electric Wedge |
| **Ball Bearing Assembly** | **Triple race/138 bearings** |
| Mounting Hardware | Clamp plate/steel U-bolts |
| **Control Cable Conductors** | **8** (Belden 8448 or 9405) |
| Shipping Weight (lbs.) | 28 |
| **Effective Moment (in tower)** | **3400 ft/lbs.** |

### The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support ..... **$289.99**

**AR-40 Specifications**

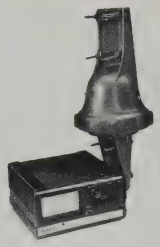
| | |
|---|---|
| Wind Load cap.(inside tower) | 3.0 square feet |
| **Wind Load (w/mast adapter)** | **1.5 square feet** |
| Turning Power (inch lbs.) | 350 |
| **Brake Power (inch lbs.)** | **450** |
| Brake Construction | Disc Brake |
| **Ball Bearing Assembly** | **Dual race/12 bearings** |
| Mounting Hardware | Plated clamps/steel bolts |
| **Control Cable Conductors** | **5** (Belden 8448 or 9405) |
| Shipping Weight (lbs.) | 14 |
| **Effective Moment (in tower)** | **300 ft/lbs.** |

### THE HAM-V

is designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Powder coated finish. Max. mast size: 2.063 in .... **$899.99**

**HAM-V Specifications**

| | |
|---|---|
| Wind Load cap.(inside tower) | 15 square feet |
| **Wind Load (w/mast adapter)** | **7.5 square feet** |
| Turning Power (in lbs.) | 800 |
| **Brake Power (in lbs.)** | **5000** |
| Brake Construction | Electric Wedge |
| **Ball Bearing Assembly** | **Dual race/96 bearings** |
| Mounting Hardware | Clamp plate/steel U-bolts |
| **Control Cable Conductors** | **8** (Belden 8448 or 9405) |
| Shipping Weight (lbs.) | 24 |
| **Effective Moment (in tower)** | **2800 foot/lbs.** |

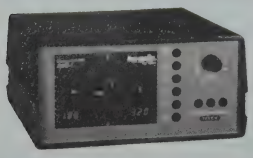


### The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 48 ball bearing race gives proven support. Diecast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063". Includes light duty lower mast support ... **$389.99**

**CD-45-II Specifications**

| | |
|---|---|
| Wind Load cap.(inside tower) | 8.5 square feet |
| **Wind Load (w/mast adapter)** | **5.0 square feet** |
| Turning Power (inch lbs.) | 600 |
| **Brake Power (inch lbs.)** | **800** |
| Brake Construction | Disc Brake |
| **Ball Bearing Assembly** | **Dual race/48 bearings** |
| Mounting Hardware | plated clamps/steel U-bolts |
| **Control Cable Conductors** | **8** (Belden 8448 or 9405) |
| Shipping Weight (lbs.) | 22 |
| **Effective Moment (in tower)** | **1200 ft/lbs.** |



### The DCU-1 PATHFINDER

**Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X**

Automatic operation of brake and rotor with digital readout out of your beam heading, accurate to 1°, and 360° choice for center of rotation. Automatic 8-second brake engagement delay reduces stopping torque stress. Six presets store favorite headings. RS-232 computer control, compatible with many logging and contest programs .. **$649.99**

### Rotator Accessories

**MSHD** Heavy duty lower mast support for Ham-IV/V, T-2X/XD ..... **$99.99**
**MSLD** Lower mat support for CD-45-II, AR-40..... **$39.99**
**TSP-1** Tower spacer plate ..... **$34.99**

We accept I.M.P.A.C.® Government Credit Cards

# YAESU

## ROTATORS

**Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation; 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220 VAC; Fits most USA-made tower shelves.**

**G-2800DXA** – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.; ±1/2° backlash; 1.875–2.5" mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8"dia. x 13.375"h; 13.2 lbs..... **$1139.99**

**G-1000DXA** – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 6-wire cable. Dim: 7.5"dia. x 12.5"h; 7.7 lbs..... **$519.99**

**G-450A** – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5-2.5 in. mast size; 53 second 360° rotation; Requires 5-wire cable. Dim: 7.5"dia. x 12.5"h; 7 lbs..... **$259.99**

**G-5500** – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load; ±4% backlash; 1.5–2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25–1.625 in. boom dia.; Requires 2 x 6-wire cable. Dim: 12.5"dia. x 7.5"h; 20 lbs..... **$629.99**

**G-550** – Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.; ±3% backlash; 1.5–2.5 in. mast size; 67 second 180° elevation; 1.25–1.625 in. boom diameter; Requires 6-wire cable. Dim: 10.5"dia. x 7.5"h; 7.3 lbs..... **$299.99**

**G-800DXA** – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable; 7.5"dia. x 12.5"h; 7.5 lbs..... **$429.99**

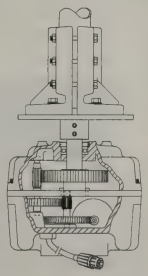
**G-800SA** – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Requires 5-wire cable. Dim: 7.5"dia. x 12.5"h; 7.5 lbs..... **$339.99**

## ACCESSORIES

**GC-038** – Mast clamp..... **$39.99**
**GC-048** – Mast clamp for G-2800DXA..... **49.99**
**GS-050** – 50mm thrust bearing (1.25"-2") **39.99**
**GS-065** – 65mm thrust bearing (1.5"-2.5") **54.99**
**GS-232B** – Interface for DXA rotators.... **589.99**
**C-1000** – GS-232B cable for SDX's/5500... **34.99**
**GS-680U** – Universal, self adjust. bearing **109.99**
**SEP KIT** – Separation kit for G-5500..... **29.99**

*K-factor: Multiply antenna turning radius x weight; add K-factors for each antenna*

## M² SUPER DUTY!



**OR-2800PDC** Rotator
The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features, plus heading preset, 10 programmable presets, programmable ramped start/stop with 1/2-degree target accuracy. **Features:** RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Prop-pitch style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates; Motor-mounted digital pulse switch for accurate, closed loop control and heading display. **Specifications:** 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75–3.125 O.D. mast size; 55-270 second rotation speed; 28-42V DC motor 0.1°/0.5° travel resolution; 110/220V AC, 50/60Hz input; Requires 8-wire (two 4-wire runs) rotor cable. Dim: 15.75"h total, 9.75"h rotor; 42 lbs ..... **$1598.99**

## Channel Master®

**9521A** Light Duty Rotator

**Drive Unit:** Handles small to medium-sized VHF/UHF Ham antennas and TV antennas. One-piece cast aluminum housing; Heavy-duty rotator motor, three wire control; Precision-cut gear system; Built-in steel thrust bearing; Wind-tested brake pad; Durable powder-coated finish.

**Control Unit:** Gives direct access via channel number or compass heading. Compatible with most remote controls. Separate infrared remote controller; 69 channel programmable memory; Auto-synchronization for accuracy..... **$99.99**

## ECG®

**U-105 Light-dutyRotator**
Long life, precision cut, hardened steel gears in a rugged, one-piece, cast aluminum housing. Large bearing surfaces and a reinforced mast for lateral load support. Ball bearings handle the vertical thrust load. Plenty of torque! Easily handles the largest TV/FM and medium amateur VHF and UHF antenna arrays. Built to take high winds and weather extremes with a water tight, lubricated seal. Smooth, quiet operation and the completely automatic control accurately shows orientation of antenna. **$69.99**

**Control Unit:** 120 VAC input and 18 VAC output voltage via 3-wire cable to rotator. Dim: 7"w x 5.875"d x 2.375"h

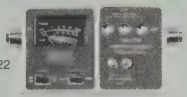
**Rotator Unit:** 360° rotation in 70 seconds. Torque of 8 ft.-lbs.; 100 lb. max. vertical load; 1.125" to 2" O.D. support mast; 10 lbs.

**U-106 Light-duty Rotator** – Similar to U-105 but with Presets and Infrared remote .. **$89.99**

**TB-105 Thrust Bearing** – Use to provide extra support and adding strength. Ball bearing design also relieves stress from varying wind loads on the rotator drive and bearing..... **$18.99**

# MFJ ANTENNA TUNERS

902


922

989D

993B

991B/994B

**MFJ... the World Leader in Amateur Radio Accessories**

**902 Tiny Travel Tuner** – Only 4.5"w x 2.25"h x 3"d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-G, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter ..... **$79.99**

**922 VHF/UHF Dual Band Antenna Tuner** – Great for HTs, mobiles or amps up to 150W. Using the included tool, adjust your antenna system for a low SWR on VHF, 136–175 MHz and UHF, 420–460 MHz. Meter reads both SWR and power in 60/150W ranges. Dim: 4"w x 2"h x 1.25"d, carry it in your car, while camping, etc ..... **$79.99**

**945E Mobile Tuner** – Covers 1.8–30 MHz plus 6M and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 and 5/30W ranges. Dim: 8"w x 2"h x 6"d **$99.99**

**941E Versa Tuner II** – Covers 1.8–30 MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an optional ext. dummy load. Dim: 10.625"w x 2.875"h x 7"d **$109.99**

**934 Antenna Tuner/Artificial Ground** – Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8–30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625"w x 3.5"h x 7"d ..... **$169.99**

**948** – All the features of the 941E except it has a larger lighted peak reading cross-needle SWR/power meter ..... **$119.99**

**949E Deluxe Versa Tuner II** – Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune™* allows off-air tune-up into a built-in dummy load. Dim: 10.625"w x 2.875"h x 7"d..... **$139.99**

**969 Deluxe Versa Tuner II** – Covers 6–160M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune™* allows off-air tune-up into a built-in 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5"w x 3.875"h x 9.5"d..... **$189.99**

**962D Versa Tuner III** – Covers 1.8–30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has built-in 4:1 balun and roller inductor. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru). Dim: 10.5"w x 3.9"h x 15"d.....**$249.99**

**986 Differential-T Tuner™** – Covers 1.8–30 MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75"w x 4.5"h x 15"d ..... **$299.99**

**989D Versa Tuner V** – Covers 1.8–30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. Dim: 10.75"w x 4.5"h x 15"d. **$319.99**

**993B IntelliTuner™ 300W Auto Tuner** – Measures, calculates, then automatically tunes most balanced and unbalanced antennas. Cross-needle meter shows forward and reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. 20,000 tuning memories for ultra-fast operaton. Manual tuning possible without transmit. Includes 4:1 current balun. Matches 6 to 3200 ohms @ 150W CW/SSB (or 6 to 1600 ohms @ 300W). Audible SWR indicator; two-position antenna switch. Dim: 10"w x 2.75"h x 9"d ..... **$249.99**

**991B IntelliTuner™ 150W Auto Tuner** – Similar to 993B, rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200 ohms..... **$209.99**

**994B IntelliTuner™ 600W Auto Tuner** – Rated 600W SSB or 300W CW. 10,000 memories. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 12 to 800 ohms. Low power tuning with any external amp bypassed..... **$339.99**

974HB

931

**974HB Balanced Line Tuner** – Matches transceivers to virtually any balanced-line fed antenna. Illuminated Cross-needle meter shows both peak and average forward and reflected power, and SWR. Matching Range: 12–2000 ohms from 1.8–54 MHz. Power: 300W SSB PEP, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80–10 meters with sperate inductors for 6 and 160 meters. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5"w x 6"h x 8"d ... **$189.99**

**974B Balanced Line Antenna Tuner** – Same as 974HB but 3.5–54 MHz (no 1.8 MHz) .... **$169.99**

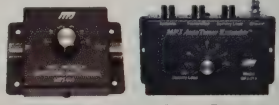
**931 Artificial Ground** – Establishes a proper ground when used with random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. Easier tuning, improved efficiency and radiation pattern, and reduced TVI/RFI. Covers 1.8-30 MHz and handles 100W. Dim: 7.5"w x 3.5"h x 7"d. **Not for coax fed antennas.... $89.99**

**906 6 Meter Antenna Tuner** – Low SWR with almost any 50-60 MHz coax fed antenna. Lighted Cross-Needle SWR/Wattmeter shows SWR, forward, reflected power on 300/60 and 30/6W ranges. Handles 100W CW, 200W SSB PEP. Built-in bypass switch. Dim: 8"w x 2.5"h x 3"d ..... **$79.99**

**903 6 Meter Antenna Tuner** – Similar to MFJ-906. Less meter and bypass switch..... **$49.99**

**921 144/220 MHz Antenna Tuner** – Dual band VHF tuner covers 2M/220MHz and matches a coax fed antennas over a wide range of impedances. Lighted SWR/Wattmeter measures SWR and power in two ranges; 300 or 30W. Rated at 200W. Dim: 8"w x 2.5"h x 3"d ..... **$69.99**

**924 440 MHz Antenna Tuner** – Similar to 921 but 440 MHz band only ..... **$69.99**



**910 Mobile Antenna Matcher** – Get more power into your HF antenna. Matches HF mobile antennas 80-10M. Dim: 2.5"w x 2.5"h x 1.5"d ... **$19.99**

**914 Auto Tuner Extender** – Transforms your antenna impedance by as much as 10 times! Puts any antenna into the range of your automatic or manual tuner. Covers 160-10 Meters, handles 300W, has bypass position ..... **$59.99**


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

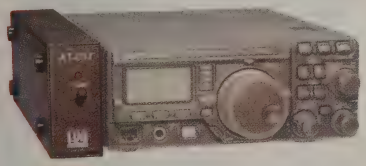
# LDG ELECTRONICS Automatic Antenna Tuners and Accessories

## AT-200Pro Automatic Antenna Tuner

The first auto tuner specifically designed for today's high-powered transceivers. The AT-200 features LDG's new "3-D memory system" allowing up to eight antenna settings to be stored for each frequency. Handles up to 250 watts SSB or CW on 1.8 to 30 MHz, and 100 watts on 54 MHz. Rugged and easy-to-read LED bar graphs show power and SWR, and a function key on the front panel allows you to access data such as mode and status.
Dim: 8.5"w x 2.0"h x 6"d; 6 lbs .....**$229.99**

## AT-100Pro Automatic Antenna Tuner

This desktop tuner covers all frequencies from 1.8 to 54 MHz, and will automatically match your antenna in no time. It features a two-position antenna switch, allowing you to switch instantly between two antennas. The AT-100Pro requires just 1 watt for full operation, but will handle up to 125 watts (100W on 6M), making it suitable for everything from QRP to a typical 100 watt transceiver. The AT-100Pro includes over 2,000 memories for each antenna, automatically storing the tuning configurations for each frequency and band as you use them. Dim: 7.5"w x 5.5"h x 2.0"d; 1.5 lbs **$199.99**



## AT-897 Automatic Antenna Tuner

If you own a Yaesu FT-897 and want a broad range automatic antenna tuner, look no further! The AT-897 mounts on the side of your FT-897 just like the original equipment. We even added the ability to mount the "feet" on the side of the tuner so when you are transporting your rig by the handle, you can safely set it down without scratching the case. The AT-897 takes power directly from the CAT port of the FT-897 and provides a second CAT port on the back of the tuner so if you are using another CAT device, hooking it up couldn't be easier. Dim: 1.5"w x 3.25"h x 10.5"d; 2 lbs..... **$199.99**

## Z-11 Pro Automatic Antenna Tuner

### The Return of a Legend!

The original portable Z-11 was one of LDG's most popular tuners, accompanying adventurous hams to their backyards, or to the ends of the earth. Now meet the Z-11Pro, everything you always wanted in a small, portable tuner designed from the ground up for battery operation.

Only 5 x 7.7 x 1.5 in., and weighing only 1.5 pounds, it handles 0.1 to 125 watts, making it ideal for both QRP and standard 100 watt transceivers from 160 - 6 meters.

With 8,000 memories in LDG's exclusive "3-D Memory" array, the Z-11Pro uses LDG's state-of-the-art processor-controlled Switched-L tuning network. It will match dipoles, verticals, inverted-Vs or virtually any coax-fed antenna. With an optional LDG balun, it will also match longwires or antennas fed with ladder-line ..... **$179.99**

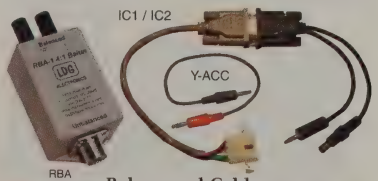
## Z-100 Automatic Antenna Tuner

### The definitive low cost automatic tuner!

Designed from the ground up to provide the 100 watt power handling you asked for, in a small, lightweight package, perfect for portable as well as sitting on your desk in your shack!

The Z-100 will tune with 0.1 to 125 watts (50 watts on 6 meters), making it an excellent choice for almost any radio or operating style. Backpackers and QRP operators will appreciate the latching relays. Power can be removed from the tuner once you have tuned. Additionally, when the tuner is not tuning, it draws nearly zero amps.

Additionally, the Z-100 features 200 fast memories which will decrease tuning time up to 95%! Dim: 5.5"w x 1.5"h x 5.25"d; 14 oz..... **$149.99**




### Baluns and Cables

**RBA-1:1** Remote 1:1 Balun..... **$30.99**
**RBA-4:1** Remote 4:1 Balun ..... **30.99**
**Y-ACC** FT-897, FT-857 Interface cable..... **12.99**
**Icom-IC1** Icom 10 ft. Interface cable ..... **20.99**
**Icom-IC2** Icom 8 in. Interface cable..... **8.99**

## AT-1000 Automatic Antenna Tuner

### An Autotuner for use with your amplifier!

No more knob spinning or inductor rolling. Tunes your antenna in only 1 to 8 seconds when you QSY either in the same band or to a different band! Easy installation and use make this the choice for any Amateur Radio Operator with an amplifier.

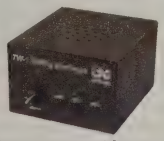
Power rating HF (1.8 to 30 MHz): 1000 Watts Single Side Band, 750 Watts CW, 500 Watts Digital (RTTY, Packet, etc.). Power rating on 6M is 100W. Just about any antenna can be tuned with the AT-1000. However, the antenna must be between 6 to 800 ohms (approximately 10:1 SWR) in order to bring the SWR down to 1.5:1.
Dim: 13"w x 3"h x 9"d; 6 lbs..... **$549.99**

## FT-METER Multi-Function Meter for FT-857/FT-897

### The End of Eye Strain for FT-857 & FT-897 Owners – the FT-Meter

The FT-Meter presents a lush, highly readable 2.5" meter face with calibrated scales for signal strength and discriminator reading on receive, and power output, SWR, modulation, ALC action and supply voltage on transmit. Each function is selectable from the radio's menu. Easily visible from anywhere on your desk or dash, the FT-Meter is illuminated by any external 12 VDC source. Fully assembled and ready to plug into either radio... **$49.99**

## TW-1 The "Talking" Watt Meter



The TW-1 Talking Wattmeter provides an aural spoken indication of power and SWR using a digitally recorded voice. It is ideal for the vision-impaired, for those of us in the "bi-focal set", or just for those times when you need to be looking somewhere else. At the press of a button, the TW-1 speaks the Forward Power, Reverse Power or SWR in English, Spanish or German. It includes its own internal speaker; no external audio hookups are needed. Also available the TW-2 UHF/VHF version. Dim: 4.5"w x 3"h x 5"d; 1 lb. ea. **$149.99**

## DTS-Series Antenna Switches

Instantly switch your rig between 4 or 6 antennas with the press of a button. Auto-grounding when you shut your rig down. Purchase the additional remote control and put the DTS Series switch anywhere indoors and operate it from your desk. Rated for up to 1500 watts of RF power on HF (250W on 6M), and can be used with any coaxial-fed antenna. **Models DTS 4, 4R, 6, 6R**

See LDG in the Price Guide

# VECTRONICS

*. . . fine amateur radio products*

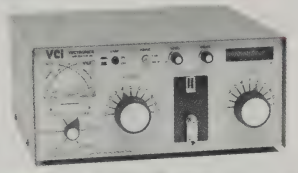
## Compact Mobile Antenna Tuner

**VC-300M** Mobile Tuner – Compact, lightweight for mobile or base. Tunes mobile whips, verticals, dipoles, inverted Vs, beams – anything fed by coaxial cable. Covers 1.8–30 MHz at 300W continuous power. The dual-movement Cross-Needle meter monitors RF power output and SWR. Dim: 7.25"w x 3.5"h x 8.75"d; 2.5 lbs..... **$109.99**

## Versatile 300 Watt Antenna Tuner

**VC-300DLP** – Matches any antenna. Full 1.8-30 MHz coverage and rated 300W PEP, 200W continuous power (150W on 1.8 MHz); Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load. Dim: 10.25"w x 9.5"d x 3.5"h; 3.4 lbs..... **$149.99**

**VC-300D** – Similar to VC-300DLP, but has an added deluxe 21-segment LCD peak power indicator located above the ant. switch ..... C/O **$149.99**



## High Power Roller Inductor Tuner

**HFT-1500** Matches any antenna. Full 1.8 to 30 MHz coverage and rated 2KW PEP, 1KW continuous. Three continuously variable components: two 4.5kV capacitors and a crank driven roller inductor with digital turns counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital Bargraph; Built-in 6-position coaxial antenna switch and 4:1 balun.
Dim: 12-1/2"w x 5-1/2"h x 12"d; 10 lbs ..... **$419.99**

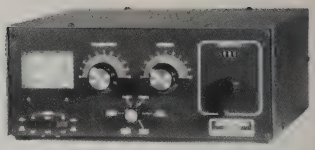
# Palomar Engineers

**PT-340**
## Tuner–Tuner

Eliminate QRM, overheated final tubes and devices by allowing adjustment for your station antenna tuner without transmitting. Installs permanently between rig and tuner. Just turn on, and listen to the noise output in a receiver, then adjust the station tuner controls for a dip in the noise (a null). Covers 1.7–30 MHz. Uses 9V battery. Dim: 6"w x 5"h x 3"d ..... **$99.99**

# AMERITRON

## True Legal Limit Antenna Tuner



**ATR-30** True Legal Limit™ Antenna Tuner – Covers 1.8–30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, also 160M. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in T-match network. Matches most antennas using either coax or balanced feedlines. Illuminated Cross-needle, peak-reading 300/3000W SWR/Wattmeter. Includes: 3-core choke balun; 6-position antenna switch; 6:1 vernier reduction drives, crank with-turns counter. Requires 12VDC or internal 9V battery. Dim: 13.25"w x 5.6"h x 17.5"d ..... **$559.99**

**ATR-20** Antenna Tuner – Looks and features same as ATR-30, but lower power rating. Handles 1.2KW PEP SSB; slightly less on 160 Meters. Dim: 13.5"w x 5.5"h x 13.5"d ..... **$429.99**

## MFJ Continuous Carrier™ Antenna Tuner

**9982** – Handles 2500 Watts continuous output on all modes and all HF bands 1.8 to 30 MHz into most unbalanced antennas. Loaded with features: Wide matching range; 6-position antenna switch; New 4-core balun; Balanced line feed-thru Insulator; 1500W air-cooled Dummy load; True peak/average lighted Cross-Needle SWR/Wattmeter; 6:1 reduction drives with detailed logging scales; 3-digit turns counter; Extra large knobs and fast tune crank. Uses a roller inductor edge wound from thick .06-inch silver-plated solid copper strap with dual silver-plated compression wheels. The high-current, high-capacitance 1000 pF and 500 pF air variable capacitors give very high efficiency on 160/80M and extremely wide matching range on 10/12/15M at 2500 Watts. Dim: 13.75"w x7"h x16"d; 15 pounds ..... **$649.99**

*Stop tuning, Start talking!*

# SGC SMARTUNER®

Automatic Antenna Couplers

SGC Smartuners™ Deliver greater impedance matching, more tuning steps and more antenna choices than any other antenna coupler on the market. Get frequency agility and precision tuning. They are independently intelligent, matching ANY HF transceiver and ANY antenna. Smartuners are microprocessor controlled; analyzing the conditions of your antenna and automatically adjusting for the best match. They also remember each match, cutting retuning time to under 10 milliseconds when changing frequencies. Smartuners are available for power levels from 1.5 to 500 Watts and frequency ranges from 1.8 to 60 MHz. They provide all purpose tuning ideal for base, mobile, portable, marine or aviation. Any budget, any installation.

**54-14** SG-230 Original Smartuner™ – 1.8-30 MHz; 200W. 16.2"l x 12.2"w x 3.2"h; 8 lbs..... **$489.99**

**54-15** SG-235 High Power – 1.8 to 30 MHz; 500W; 16.2"l x 12.2"w x 3.2"h; 8 lbs ..... **$1169.99**

**54-18** SG-237 General Purpose Smartuner™ – 1.8 to 60 MHz; 100W; 9"l x 7"w x 1.5"h; 2 lbs **$359.99**

**54-22** SG-239 Budget Smartuner™ – 1.8 to 30 MHz; 200W; 7.5"l x 6"w x 1.9"h; 2 lbs .... **$179.99**

**54-25** MAC-200 Master Antenna Controller Select the right antenna, for the right band, at the right time with the MAC-200. The Master Antenna Controller operates as your base station control center, eliminating complicated switching and tuning. With two built-in computers, the MAC-200 can select and tune up to 5 antennas automatically, quickly and accurately. Built-in memories fine tune to minimum SWR with any balanced or unbalanced antenna. It instantly recalls settings from memory, allowing retuning in less than 10 milliseconds. Monitor your power and SWR with convenient meters on the front panel. Using SGC's well-known Smartuner™ technology, the MAC-200 is the perfect choice for anyone using multiple antennas in a base station system. 1.8-60 MHz; 1.5-200W; 168 memories; Pi configuration; 230mA average current; < 2 second random set time. Dim 8.5"l x 6.5"w x 3"h; 5 lbs..... **$249.99**



AES
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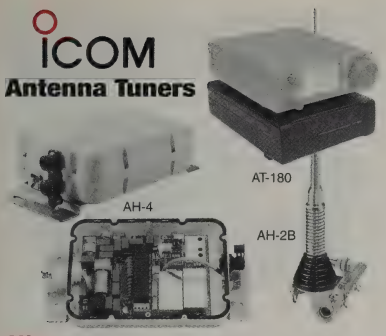
Browse Our Store On-Line at www.aesham.com

# ICOM
## Antenna Tuners




**AH-4 Automatic Antenna Tuner** – Covers 3.5–54 MHz using a 23 ft. or longer wire, or 7–54 MHz with optional AH-2B Antenna Element. Weather-resistant construction enables operation in all conditions. Rated 120W PEP, requires only 5–15W for tuning. For use with ICOM HF transceivers – just push the [TUNER] switch and it tunes to minimum SWR in less than 2.5 seconds. 45 memories store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables. 13.8 VDC. Dim: 6.7"w x 2.7"h x 9"d ..... **$259.99**

**AT-180 Automatic Antenna Tuner** – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function when with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate. 13.8 VDC. Dim: 6.5"w x 2.3"h x 8.9"d; weight:. 5.3 lbs..... **$369.99**

**AH-2B Antenna Element** – Covers 7–50 MHz when used with the AH-4 tuner. Includes hardware for mounting to a tow bar, 8.2 ft. long ... **$349.99**

# AMERITRON

## REMOTE CONTROLLED ANTENNA SWITCHES

**RCS-4** – Select up to 4 different HF antennas by supplying control voltages thru the coax without the need for a separate control line. The weatherproof switch box can be tower, mast or wall mounted. Uses 3 heavy duty 10A contact relays on a fiberglass circuit board 5.25"d x 7"w x 3"h.; 120VAC Rated 1.8–30 MHz, 2KW; Safe 14VDC control; Indoor control console locates at operating position. Dim: 6"d x 6"w x 2.5"h..... **$129.99**

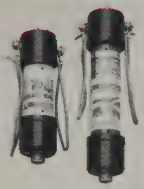
**RCS-8V** – Independently or simultaneously select up to 5 different antennas using one coaxial feedline and 8-wire control cable. Internal wiring allows grounding or floating unused terminals as required. Rated at 5KW to 30 MHz, 1KW to 150 MHz. **$139.99**

**RCS-8VN** – Same as RCS-8V but with N-type female connectors..... **$149.99**

**RCS-10** – Select up to eight HF antennas using one feed line and a single four conductor control line (not supplied). Long life sealed relays with 16A current rating. Rated up to 100 MHz and over 5KW power into matched loads below 30 MHz..... **$159.99**

# UNADILLA

## W2AU Ferrite Baluns



These baluns replace the antenna center insulator and provide a smooth transition from unbalanced coaxial transmission lines to balanced antennas; dipoles, quads and yagis. Produces proper current distribution resulting in reduced feedline radiation for maximum power transfer, gain and reduced TVI/BCI. DC grounded for lighting protection, center eye hook for support. Usable from 1.8-40 MHz, 2KW PEP rating, SO-239 connector.

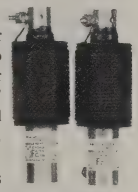
**W2AU 1:1** – 1.1, 1.8-40 MHz ferrite ..... **$24.99**
**W2AU 4:1** – 1.1, 1.8-40 MHz ferrite..... **24.99**
**W2AU BEAM** – 1.1, Beam balun ..... **24.99**

## W2DU Choke Baluns

These are High efficiency, *transformerless* 1:1 baluns. The HF model is the only one available that works on 160 meters! They all handle a VSWR up to 5:1 at the legal power limit, allowing use with antenna tuners. The VHF model eliminates the usual rod and tube hardware balun assembly normally used at those frequencies.

**W2DU-HF** – 1:1, 1.8-30 MHz Choke..... **$26.99**
**W2DU-VHF** – 1:1, 30-250 MHz Choke ..... **26.99**
**W2DU BEAM** – 1:1, 40-10m choke..... **26.99**

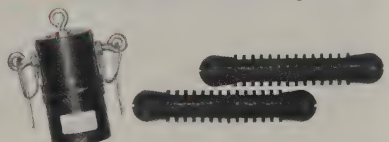
## REYCO Antenna Traps



Add these traps to your dipole for multiband operation on two to seven bands. Add the 40M pair (KW-40) and get "perfect dipole" performance on 40 and 80M. Add five pair and work 10, 15, 20, 40, 80 and 160M with low SWR.

**Selecting traps:** List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.

**KW-10** – 10M..... pair **$41.99**
**KW-12** – 12M..... pair **41.99**
**KW-15** – 15M..... pair **41.99**
**KW-17** – 17M..... pair **41.99**
**KW-20** – 20M..... pair **41.99**
**KW-30** – 30M..... pair **42.99**
**KW-40** – 40M..... pair **42.99**
**KW-60** – 60M..... pair **46.99**
**KW-80CW** – 80M CW..... pair **48.99**
**KW-80F** – 80M Phone..... pair **48.99**



**HA AN-Insulator™** *(left)* – A strong center dipole insulator with built-in lightning protection. SO-239 connector, 3.5" long x 1.75" dia ..... **$9.99**

**HE END-Insulator™** *(right)* – Shatter-proof antenna end insulators. Tough, includes voltage path extenders, positive wire track. Low loss, lightweight and long leakage path. 5.5" long x 1"dia ..... pair **$6.99**

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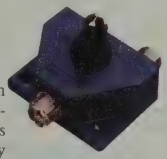
## Coaxial Antenna Switches

# ALPHA DELTA

Two and Four Position Switches
Full Product Descriptions on page 71.

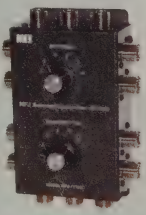
# DAIWA
industry co. ltd.



**CS-201** 2-Position Coaxial Switch

A high quality switch with excellent high frequency RF characteristics due to cavity and heavy die-cast metal construction. Frequency range up to 600 MHz with less than 0.12 VSWR. Less than 0.2dB insertion loss and 60dB isolation between terminals. Handles 2.5 KW PEP or 1KW CW. Automatic grounding of unused terminals. SO-239 connectors..... **$26.99**

# MFJ



**1700C** Antenna and Transceiver Switch with Lightning Protection

Switch up to six antennas and six rigs in any combination. For 50 or 75Ω, rated 2KW PEP or 1KW CW from 1.8-30 MHz. Dim: 10"w x 3"h x 1.5"d..... **$99.99**

**1701 Antenna Switch** – Six positions, 50-75Ω. Rated for 2KW PEP or 1KW CW from 1.8–30 MHz. Grounds unused positions for surge protection. Dim: 10"w x 3"h x 1.5"d..... **$59.99**

**1702C Antenna Switch** – Two positions + center ground, 50Ω, rated to 500 MHz. Handles for 2.5KW PEP or 1KW CW. Less than than 0.2dB loss and greater than 60dB isolation @ 300; 50dB @ 450 MHz. Grounds unused positions for surge protection. ..... **$24.99**

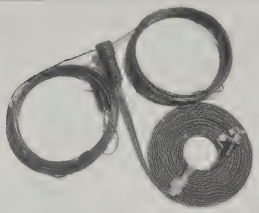
**1702CN** – Uses type-N connectors for lowest loss on UHF. Good up to 1.1 GHz..... **$34.99**

**1704 Antenna Switch** – Four positions + center ground, 50Ω, rated to 500 MHz. Handles 2.5kW PEP, 1KW CW. Less than 0.2dB loss and greater than 50 dB isolation @ 500 MHz. Includes lightning protection with a replaceable gas-tube..... **$64.99**

**1704N** – Uses type-N connectors..... **$74.99**

# RadioWavz

## HF Wire Antennas



The **G5RV** antenna, with its special feeder arrangement, is a Multiband center-fed antenna with very efficient operation on all HF bands from 3.5-28 MHz. Made with of high quality copper coated steel UV insulated wire on the top and a 300 ohm ladder line terminating into a SO-239 connector.

**G5RV** 102 ft. long, 32 ft. tall..... **$36.99**
**G5RV JR** 51 ft. long, 14 ft. tall..... **25.99**
**G5RV LITE** 67 ft. long, 32 ft. tall..... **40.99**
**G5RV MAX** 204 ft. long, 56 ft. tall..... **65.99**

Nothing beats a **Tuned Dipole** with its simple, efficient, and versatile performance. With a dipole you configure the antenna as an inverted-V, flat top, or "L". The Dipole works best at the band that it is designed for, however with an antenna tuner coverage may be expanded. The included 1:1 balun isolates and converts the unbalanced transmission line to balanced for a cleaner pattern and improved operation.

**10MC/BALUN** 17 ft. 10M dipole/balun .... **$33.99**
**12MC/BALUN** 19 ft. 12M dipole/balun..... **33.99**
**15MC/BALUN** 22 ft. 15M dipole/balun..... **33.99**
**17MC/BALUN** 26 ft. 17M dipole/balun..... **33.99**
**20MC/BALUN** 32 ft. 20M dipole/balun..... **37.99**
**30MC/BALUN** 46 ft. 30M dipole/balun..... **45.99**
**40MC/BALUN** 66 ft. 40M dipole/balun..... **45.99**
**80MC/BALUN** 130 ft. 80M dipole/balun .... **55.99**
**160MC/BALUN** 250 ft. 160M dipole/balun .. **75.99**

The **DOUBLE BAZOOKA** antenna is an extremely broad banded Half Wave Coaxial Antenna which can operate efficiently across an entire ham band with little change to the SWR. The design eliminates the need for a balun and can be fed directly with 50 ohm coax.

**40M-DBZ** 70 ft. 40M Double Bazooka ..... **$45.99**
**75M-DBZ** 135 ft. 75M Double Bazooka ..... **75.99**

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## HEIL SOUND Quality Microphones

**HM-10** • Whether DX or Rag Chews, these are the great sounding Heil microphones you have been hearing on the Ham bands for years. The **HM-10** is available with your choice of an HC-4 "DX Dream Machine" or HC-5 "Full Range Articulation" element.

The **HM-10 Dual** has both the HC-5 and HC-4 elements (switch selectable), a choice for varying conditions. Both require a CC-1 cord.

**GM-Series** • Provides full-range, smooth and articulate audio for AM, FM and "HI-FI" SSB modes. The 60Hz to 16kHz frequency response, with a +4 dB midrange peak @ 2kHz, produces brilliant articulation for clear, understandable SSB audio, and adds a well-balanced robust low end. **Dual element** - the GM comes with your choice of a second element (HC-4 or HC-5). A "wide-narrow" switch selects the second element. Die-cast body, high lustre black lacquer and topped with a crushproof golden grill, and a "soft touch" PTT button. Requires a CC-1 cord.

**Handi-Mics** • Five clean and clear sounding models each for different applications, mating to different rigs and inputs. A PTT switch is incorporated on four of the models. Only 4 in. tall, and the required Heil CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes dash holder, boom clip and a windscreen.

**PR-20 Professional Dynamic Cardoid Microphone** – For commercial broadcast and live sound reinforcement applications which require a smooth flat 40 Hz to 18 kHz response.

**PR-40 Large Diameter Studio Microphone** New element technology with a response from 28 Hz to 18 kHz with a mid-range rise for gorgeous vocal articulation. Stand not included.

**PR-780 Professional Quality Dynamic Cardiod Studio Microphone Package** – For high end transceivers; ICOM IC-7800, the PRO-series, Kenwood and Yaesu using the correct CC-1 XLR mating cables. Uses a dynamic broadcast element for a beautiful wide frequency response and high articulation. Includes microphone, mount, base, XLR cable and handswitch.

See the Price Guide under Heil for Prices, other Models and Accessories

## PALSTAR

*"BUILT LIKE A TANK" - K0CWO*

**AT-AUTO** Automatic Antenna Tuner

- 50-1500 W single tone continuous
- wide Z range on 160m - 10m & 10m - 15m
- tuning time 1-30 seconds
- Serial port for field upgradeable software
- custom large plate capacitor at 5kV
- Peak and Peak Hold crossneedle metering

**$1195.99**

**AT-5K** 3500W Antenna Tuner

- 160m - 15m limited Z range on 10m
- balanced output w. 5 kW balun
- 600pf variable capacitor at 6 kV
- 10 Amp 7 kV ceramic roller inductor
- silver plated wheel shaft & hardware
- Peak and Peak Hold crossneedle metering

**$1195.99**

**AT-1500DT** 1500W PEP Antenna Tuner

- wide Z range on 160m - 20m & 10m to 15m
- ferrite 4:1 balun
- differential capacitor tuning (385pf@5 kV)
- Palstar designed ceramic body roller inductor
- silver plated wheel shaft & hardware
- Peak and Peak Hold crossneedle metering

**$479.99**

**AT-1KM** 1200W PEP Antenna Tuner

- wide Z range on 160m - 20m & 10m to 15m
- ferrite 4:1 balun
- 430pf differential capacitor at 3.5 kV
- 7 Amp 5 kV ceramic roller inductor
- silver plated wheel shaft & hardware
- crossneedle metering

**$379.99**



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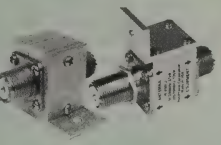
# PolyPhaser® CORPORATION

**The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a single, low impedance, ground system within the hamshack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor, etc.).**

## BROADBAND COAXIAL PROTECTORS

Hermetically-sealed gas tubes and additional components assure surge voltages and currents that are formed differentially on coaxial cable are prevented from being shared by valuable equipment. DC blocked for maximum protection. Low loss; Multi-strike capability with low strike throughput energy; Aluminum enclosure; Wide frequency range, low VSWR; Works on all equipment; Silver-center, TFE, UHF connectors; Silver shell and gold pin Type-N.



**Flange Mount (left)**

**IS-50UX-C0** 1.5–400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector.. **$62.99**

**IS-50UX-C1** 50–700 MHz; VHF 375W; UHF 125W; UHF connector..... **$62.99**

**IS-50NX-C2** – 125–1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N connector. **$62.99**

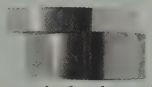
**Bulkhead Mount (right)**

**IS-B50LU-C0** – 1.5–400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector..... **$65.99**

**IS-B50LU-C1** – 50–700 MHz; VHF 375W, UHF 125W; UHF connector..... **$65.99**

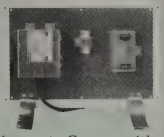
**IS-B50LN-C2** – 125–1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N conn..... **$65.99**

## LOW INDUCTANCE COPPER STRAP



A larger surface area and lower inductance gives strap a huge advantage over wire for RF grounding and lightning protection. Cannot be fused open by lightning. Usable above or in-ground, #26 AWG thickness. Available in 1.5 or 3 in. widths and 25, 50 or 100 ft. rolls. **See Price Guide for details.**

## GROUNDING PANEL



**CU-SPGP** – A heavy 0.062" copper plate mounted on 1/2" plywood. For mounting protectors and establishing the important single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10' x 1.5" copper grounding strap and 2 copper, 18"w x 12"h, sandwich bars, 16" on-center mount **$88.99**

## ROTOR CONTROL PROTECTOR

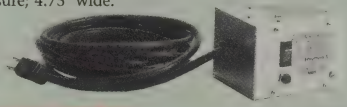
**IS-RCT** *(left)* – 8-wire protection for rotor box and nearby equipment. Water tight with mounting stud. Shown with optional J-1 clamp..... **$99.99**

## IN-LINE PHONE LINE PROTECTOR

**IS-SPTL** *(right)* – Multi-stage protection for telephone trunk lines. Handles ring voltages up to 105V, surges up to 36kA..... **$77.99**

## POWER LINE EXTENSION PROTECTOR

In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding for a 120V AC line. 2 grounded outlets, power switch, and circuit breaker. All aluminum grounded enclosure; 4.75" wide.



**PLDO-120US15A** – 15' cord; 120V/15A **$169.99**

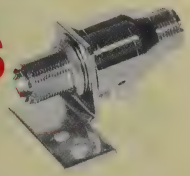
**PLDO-120US20A** – 6' cord; 120V/20A . **$199.99**

**LEARN ALL ABOUT LIGHTNING PROTECTION! BE SAFE - NOT SORRY**

**Lightning Protection and Grounding Solutions for Communications Sites**

Published by PolyPhaser® in a non-technical manner so anyone can understand how to install an effective grounding and protection system to guard communications equipment against destructive lightning energy..... PLY LPGS **$20.00**

# AES LIGHTNING PROTECTORS



Employs Gas-tube protection to isolate equipment from damaging surges. The Gas-tube holder unscrews providing for simple replacement. Both models are weatherproof, may be bulk head mounted, or flange mounted using the included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5"l x 1" dia.

**SP-U** – UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss ..... **$39.99**

**SP-N** – Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss..... **$39.99**

**AP** – Replacement Gas-tube protector.... **$9.99**

# MFJ

**270 Lightning Surge Protector**

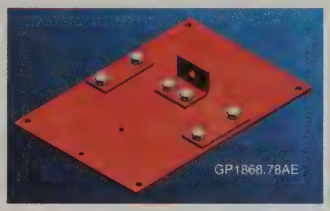
Safeguard your valuable ham gear from damage due to static charges and lightning induced surges. A replaceable ultra-fast gas discharge tube safely shunts up to 5000 amps peak impulse current to an independent ground. Rated to 400W PEP, usable up to 1000 MHz ..... **$29.99**

# HARGER

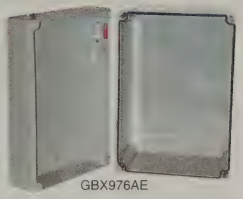
## GROUNDING ACCESSORIES

**GBIS18114AE** 1/8" Copper Entrance Ground Bar Kit – Installs at shack entrance, making a short connection to the ground system. Holds up to five PolyPhaser IS-50-type lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Attach grounding wires from 1/0 stranded to #6 solid..... **$39.99**

**GEL3AE** – Pkg. of 5 HD terminal lugs..... **$21.99**

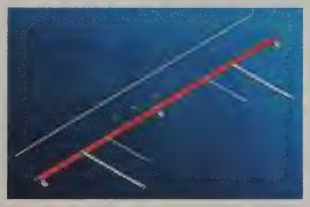



**GP1868.78AE** 1/8 in. Copper Single Point Ground Panel Kit – Provides Single-Point grounding for two transceiver lines and rotor control cable.




Installs at tower base or on outside wall. Sized to fit inside a NEMA-4X style box for weather proofing. Tapped holes and hardware provided for mounting a **PolyPhaser** IC-RCT rotor control protector and up to two IS-50 series coaxial protectors. Sandwich plates and hardware included..... **$66.99**

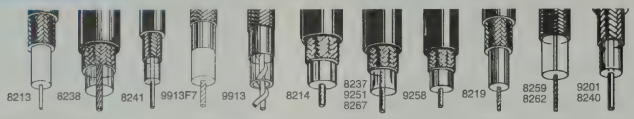
**GBX976AE** NEMA 4X Waterproof Enclosure Accepts GP1868.78AE ground panel ..... **$114.99**



**GBIS18148AE** 1/8" Copper Station Ground Bar Kit – Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4" strap and lugs for added assemblies..... **$72.99**

We accept I.M.P.A.C.® Government Credit Cards

**BELDEN**Cable™




## COAXIAL CABLE

See Belden in the Price Guide

| Model | Type | Dia. (in.) | Center conductor | Insulation type | Shield coverage | Jacket type | Imp. (Ω) | Vel. factor | Loss/100' 100 MHz |
|---|---|---|---|---|---|---|---|---|---|
| 8216 | RG-174 Sub-miniature | .11 | 26 AWG bare copper coat steel | Solid polyethylene | 90% tinned copper braid | Black PVC | 50Ω | 66% | 8.4 dB |
| 8219 | RG-58A/U | .195 | 20 AWG stranded bare copper | Foam polyethylene | 96% tinned copper braid | Black PVC | 53.5Ω | 73% | 4.5 dB |
| 8240 | RG-58/U | .195 | 20 AWG solid bare copper | Solid polyethylene | 95% tinned copper braid | Black PVC | 51.5Ω | 66% | 3.8 dB |
| 8259 | RG-58A/U | .193 | 20 AWG stranded tinned copper | Solid polyethylene | 95% tinned copper braid | Black PVC | 50Ω | 66% | 5.4 dB |
| 8262 | RG-58C/U non-contaminating | .195 | 20 AWG stranded tinned copper | Solid polyethylene | 95% tinned copper braid | Black. non-contaminating PVC | 50Ω | 66% | 5.4 dB |
| 9258 | RG-8X Mini-8 | .242 | 16 AWG stranded bare copper | Foam polyethylene | 95% bare copper braid | Black PVC | 50Ω | 82% | 3.1 dB |
| 8214 | RG-8/U | .403 | 11 AWG stranded bare copper | Foam polyethylene | 97% bare copper braid | Black PVC | 50Ω | 78% | 1.7 dB |
| 8237 | RG-8/U | .405 | 13 AWG stranded bare copper | Solid polyethylene | 97% bare copper braid | Black PVC | 52Ω | 66% | 1.9 dB |
| 8267 | RG-213/U non-contaminating | .405 | 13 AWG stranded bare copper | Solid polyethylene | 97% bare copper braid | Black. non-contaminating PCV | 50Ω | 66% | 2.1 dB |
| 9913 | Low loss semi-flexible RG-8/U | .405 | 10 AWG solid bare copper | Semi-solid polyethylene | 100% bonded foil plus 90% tinned copper. braid | Black PVC | 50Ω | 84% | 1.3 dB |
| 9913F7 | Low loss flexible RG-8/U | .405 | 10 AWG stranded bare copper | Gas-injected foam polyethylene | 100% bonded foil plus 90% tinned copper braid | Black Belflex® | 50Ω | 84% | 1.5 dB |
| 8241 | RG-59/U | .242 | 23 AWG solid bare copper | Solid polyethylene | 95% bare copper braid | Black polyethylene | 75Ω | 66% | 3.4 dB |
| 8213 | RG-11/U | .405 | AWG 14 solid bare copper | Gas-injected foam polyethylene | 97% bare copper braid | Black polyethylene | 75Ω | 84% | 1.3 dB |
| 8238 | RG-11/U | .405 | 18 AWG stranded tinned copper. | Semi-foam polyethylene | 97% bare copper braid | Black PVC | 75Ω | 66% | 2.0 dB |

## ROTOR CABLE

**8448 Standard duty, 8 wire** – Up to 100 ft. runs. Six #22 and two #18 AWG tinned copper conductors. PVC insulation and PVC jacket.

**9405 Heavy duty, 8 wire** – Over 100 ft. runs. Six #18 and two #16 AWG tinned copper conductors. PVC insulation and PVC jacket.

**8484 Standard duty, 4 wire** – (4) #20 AWG tinned copper conductors. PVC insulation and PVC jacket.

## PREASSEMBLED COAXIAL HOOK-UPS

**9354** – 50' RG-8/U low-loss foam, PL-259s **$76.99**
**9355** – 75' RG-8/U low-loss foam, PL-259s **99.99**
**9356** – 100' RG-8/U low-loss foam, PL-259s **114.99**

## ANTENNA & GROUND WIRE

**8000** – #14 AWG (7x22) stranded bare copper-covered steel antenna wire.

**8018** – #8 AWG (solid) soft annealed aluminum ground wire – multiples of 50 ft.

synthetic textiles,inc.

## DACRON® GUY ROPE

**Black Dacron® Polyester Rope** – Constructed of strong double braid Dacron® polyester. It's black for UV protection and has excellent resistance to weather, mildew and abrasion. The rope ties and cuts easily and ends seal effectively with the application of a small flame or hot tool.

After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers. When used as an overhead boom support rope for beam antennas, it eliminates a conductive wire from the RF field, which is especially important in VHF/UHF applications.

**100'** – 100 ft., 260+ lbs., 3/32 in. ..... **$7.99**
**100' 3/16** – 100 ft., 770+ lbs., 3/16 in. ..... **16.99**
**100' 5/16** – 100 ft., 1790+ lbs., 5/16 in. ..... **22.99**
**350'** – 350 ft., 770+ lbs., 3/16 in. ..... **44.99**

## WA1FFL Ladder-Loc®
### LADDER LINE CENTER INSULATOR/SUPPORT

Provides a secure attachment of 450 ohm ladder line to dipoles and other wire antennas. Minimizes feedline flexing at the antenna feedpoint and ensures a long lasting, trouble-free installation. A top attachment point is provided for attaching a support rope. UV resistant.. **$12.99**

WINEGARD®
Clearly the World's Best®

## TV CABLE

**RG-6 75 ohm TV Coaxial Cable** – Cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weatherproof F-connectors are installed on each end.

**CX-0625** – 25 ft. length ..... **$10.99**
**CX-0650** – 50 ft. length..... **15.99**
**CX-0675** – 75 ft. length..... **19.99**
**CX-6100** – 100 ft. length..... **24.99**

**TV-2900 Matching Transformer** – Adapts 75 ohm coaxial cable with F-connector to a 300 ohm TV antenna or TV set. Includes F-connector and weatherproof boot ..... **$2.99**

Connecting you to the World™
CABLE X-PERTS™

## FLAT BRAIDED GROUND STRAP

Flat, flexible, and tinned for easy soldering. Use the 1 in. wide size for connecting tower legs or antennas to ground rods or to a central grounding point. From the central point, use separate lengths of 1/2 in. wide to connect to each piece of station equipment for best lighting protection.

**2332** – 1/2 in./10 ga., rated at 53A ... per ft. **69¢**
**2332 100** – 100 ft. roll of above..... **$52.99**
**235** – 1 in./7 ga., rated at 85A ..... per ft. **$1.13**
**235 100** – 100 ft. roll of above..... **$92.99**

AIM

## ROTARY COAX CABLE STRIPPERS

For quick, clean prep of coaxial cable without damage. Insert coax, turn clockwise 4 or 5 times.

**24-7735P** – for RG-58, RG-59, RG-62 .. **$23.99**
**24-7736P** – for RG-6, RG-59, 8281..... **22.99**
**24-7739P** – for RG-8, RG-11, RG-213..... **33.99**

Kleinhuis
North America, Inc.

## GROUNDING

**1309 Isolated Ground Bar** Provides additional panel, sub panel or control panel grounding points. Accepts 8 to 12 (AWG) stranded or solid copper wire. Corrosion resistant, nickel-plated, copper clamping rail. Locking protective hinged cover. UL listed, CSA approved. 600V max. Dim: 7.5"w x 1.75"h . **$14.99**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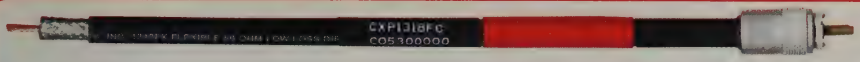
Browse Our Store On-Line at www.aesham.com



# READY-MADE COAX CABLE ASSEMBLIES

### CXP1318FC
Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 50MHz 1.1, 150MHz 1.9, 450MHz 3.3
Recommended frequencies: 50-450MHz.

### CXP008C
Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2
Recommended frequencies: 1-50MHz.

### CXP1318FN
Connector: **"N" Male both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 150MHz 1.9, 450MHz 3.3,
Recommended frequencies: 150MHz & higher.

### CXP08XC
Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.98, 30MHz 2.0
Recommended frequencies: 1-30MHz.

### CXP213C
Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **1** (97%BC Braid) **V/P 66%**
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2
Recommended frequencies: 1-30MHz(High Power).

### BRAIDED GROUND STRAP

Sizes: ..... 1/2" wide
or .....1" wide

**CABLE X-PERTS, INC.**
*Connecting You to the World...*

See Price Guide for Cable X-perts pricing.

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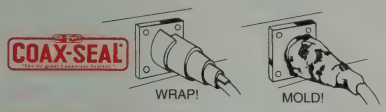
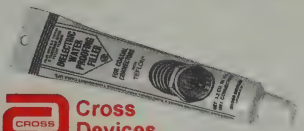



**UNV 104 Hand Moldable Plastic for Antenna Component Protection** – The quick and effective way to seal and protect all types of coaxial fittings, baluns, antenna parts and connectors. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature for years to resist moisture penetration and deterioration. Its permanent flexibility makes it possible to remove and reinstall fittings, then reseal by reforming the same material. Non-toxic and non-contaminating roll, 1/2"w x 60" ..... **$3.99**

## Coax & Connector Protection Products



Cross Devices

**STUF Dielectric Water-proof Connector Filler** Seals out moisture. High purity macroscopic foam that dielectrically simulates the coaxial cable core. Fill coax connectors and tighten. The filler material hydraulically channels into all connector voids and points of moisture entry. Non-hardening, easy to remove. No silicone, or other additives to harm coax cable material ..... (tube) **$5.99**

## PENETROX™

**PENETROX® A Conductive Grease** – Highly recommended for use on aluminum-to-aluminum and aluminum-to-copper connectors, on bare conductors, and bus bars. Assures long term high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Apply to mating pieces of antenna components, tubing, etc. during assembly to provide a non-corrosive, low resistance and air tight seal. Makes later disassembly effortless ..... (4oz bottle) **$12.99**

---

## ANTENNA WIRE
## MEADOW RIDGE PRODUCTS, INC.

**COPPERWELD® Antenna Wire** – Forge-welding makes the two metals inseparable! Solid bare copper-over-steel wire – the best for antennas. Very strong, the steel core has very little stretch and long service life. The copper covering provides low RF resistance and solders easily. 12, 14 or 18 gauge.

**AN-122** – 100 ft. #12 ..... **$39.99**
**AN-123** – 150 ft. #12 ..... **49.99**
**AN-124** – 250 ft. #12 ..... **79.99**
**AN-126** – 500 ft. #12 ..... **139.99**
**AN-128** – 1000 ft. #12 ..... **239.99**
**AN-142** – 100 ft. #14 ..... **29.99**
**AN-143** – 150 ft. #14 ..... **39.99**
**AN-144** – 250 ft. #14 ..... **49.99**
**AN-146** – 500 ft. #14 ..... **89.99**
**AN-148** – 1000 ft. #14 ..... **169.99**
**AN-181** – 250 ft. #18 ..... **24.99**
**AN-182** – 500 ft. #18 ..... **39.99**

## Van Gorden Engineering

### BALUNS & INSULATORS

**Hi-Q 1:1** or **Hi-Q 4:1 Baluns** For dipoles, yagis, inverted vees and doublets. Provides 1:1 or 4:1 impedance ratio for matching unbalanced coaxial cable to balanced antennas. Covers 3–40 MHz with a 1.5KW rating. Reduces feedline radiation for more power into antenna, and reduced TVI/BCI problems. Built-in DC ground reduces static noise and provides some lightning protection. Convenient SO-239 connector and center support eye hook; weatherproof ea. **$18.99**

**ANTENNA CENTE** Hi-Q Antenna Center Insulator Insulator only, no balun. Replaces egg-type center insulator. Small, rugged, lightweight, weatherproof, SO-239 connector, center supporting eye hook ..... **$9.99**

**ANTENNA END IN** – End insulators pair **$6.99**
**DOG BONE** – Antenna insulator..... each **99¢**

### LADDER LINE
**450 OHM 100** – 18 ga. 100' insulated... **$19.99**
**450 OHM 14 100** – 14 ga. 100' insulated **39.99**
**450 OHM 1000** – 18 ga. 1000' insulated **149.99**
**450 OHM 14 1000** – 14 ga. 1000' insul **299.99**

### WHITE NYLON ROPE
**NR-100** – 100' roll, antenna guy rope ..... **$6.99**
**NR-1000** – 1000' roll, antenna guy rope... **50.99**

### N CONNECTOR
**N CONNECTOR** – Male connector for Belden 9913 and 8214 coax..... **$4.99**

### PREASSEMBLED COAXIAL HOOK-UPS
**8X-1.5ST** – 1.5' RG-8X, silver-tef. PL-259s **$9.99**
**8X-3ST** – 3' RG-8X w/silver-teflon PL-259s **10.99**
**8X-6ST** – 6' RG-8X w/silver-teflon PL-259s **12.99**
**8X-12ST** – 12' RG-8X, silver-teflon PL-259s **15.99**
**8X-25ST** – 25' RG-8X, silver-teflon PL-259s **22.99**
**8X-50ST** – 50' RG-8X, silver-teflon PL-259s **32.99**
**8X-75ST** – 75' RG-8X, silver-teflon PL-259s **40.99**
**8X-100ST** – 100' RG-8X, silver-tef. PL-259s **47.99**
**213-25ST** – 25' RG-213, silver-tef. PL-259s **34.99**
**213-50ST** – 50' RG-213, silver-tef. PL-259s **50.99**
**213-75ST** – 75' RG-213, silver-tef. PL-259s **72.99**
**213-100ST** – 100' RG-213, sil.-tef. PL-259s **90.99**

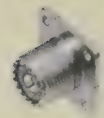
## UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.

**AMPHENOL**
**83-1SP-1050** (PL-259) Male coax plug
**83-1SP** (PL-259) Silver-plated coax plug

**VAN GORDEN**
**SILVER PLATED** (PL-259) Teflon

**AMPHENOL PL-259 REDUCING ADAPTERS**
**83-185-RFX** For RG-58
**83-168-RFX** For RG-59/8X



**AMPHENOL**
**83-878** UHF single hole bulkhead receptacle

**AMPHENOL**
**83-1R** (SO-239) UHF panel receptacle

**SHAKESPEARE**
**PL-259CPG** (PL-259) No strip, Solderless male coax plug for RG-8X & RG-58/AU

**SHAKESPEARE**
**PL-258CPG** No strip, solderless splice for RG-8X & RG-58/AU

## MICROPHONE & DIN CONNECTORS

**VANCO**
**CBC-8P** Panel mount 8-pin male

**KENWOOD**
**7-PIN DIN** plug
**8-PIN DIN** plug
**13-PIN DIN** plug

(5-pin shown)

**PHILMORE**
**61-608B** 8-pin female mic plug

**VANCO**
**CBC-4** 4-pin female mic plug
**CBC-5** 5-pin female mic plug
**CBC-6** 6-pin female mic plug

**HOUSE OF DEALS**
**AP-115** 1/4" metal stereo plug

**HOUSE OF DEALS**
**AP-135** 3.5mm stereo mini phone

**DALBANI**
**15-0293** 3.5mm mono plug

Prices for items on this page can be found under CONNECTORS in the Price Guide.

## TYPE N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.

**AMPHENOL**
**82-202-1006** Male for 8214/9913/9913F
**34025** Male for RG-58

**VAN GORDEN**
**N CONNECTOR** Male EZ-install type for 9913/8214

**AMPHENOL**
**82-24** Type-N panel receptacle

**AIM**
**26-8011** Type-N chassis mount

## BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.

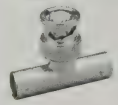
**AMPHENOL**
**31-002** Male for RG-58
**31-012** Male for RG-59/8X

**AIM**
**27-8470** Dual chassis mount

**AMPHENOL**
**31-221** Female chassis socket

## COAXIAL ADAPTERS

**AMPHENOL**
**83-1T** UHF T-connector adapter (M-358)



**AIM**
**27-8140** BNC T (2 fem., 1 male)

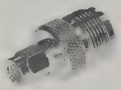
**AMPHENOL**
**83-877** UHF double male adapter

**AMPHENOL**
**4400** SO-239 to Type-N male

**AIM**
**26-8015** Type-N male to SO-239

**AMPHENOL**
**31-28** BNC female to PL-259

**AIM**
**27-8120** BNC female to PL-259



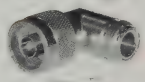
**HOUSE OF DEALS**
**SMA-872** SO-239 to SMA adapter

**AIM**
**27-8130** BNC double male

**AMPHENOL**
**2900** SO-239 to BNC male adapter

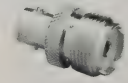
**AIM**
**25-7420** BNC male to SO-239
**26-8017** BNC male to N female

**AMPHENOL**
**83-1AP** UHF right angle (UG-146)



**AMPHENOL**
**82-64** Type-N right angle adapter

**AIM**
**26-8016** BNC female to N male



**AIM**
**25-7365** BNC female to SO-239

**AIM**
**29-4140** SO-239 to mini PL-259

**AIM**
**26-8014** N female to UHF male

**AMPHENOL**
**83-1J** UHF double female (PL-258)

**AIM**
**CPAD-207** Chassis mt SO-239 double female

**AIM**
**26-8010** Type-N double female

**AIM**
**29-3855** BNC female to SMA male



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### Learn Morse code for your upgrade to General!

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*GROL-Plus* book covers FCC Elements 1, 3 & 8 for MROP, GROL, and Radar Endorsement
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Extra Class audio theory course includes 7 audio CDs..... **W5Y GWEW-02/CD $39.99**
Extra book + software pkg. **W5Y ECS-02 $39.99**

### W5YI Ham Operator Software

Includes all written and code exams, plus W5YI CW software on a CD-ROM, with free Part 97 booklet.
**W5Y HOS-04** (no books) ..... **$39.99**
**W5Y HOSB-04** (with 3 study manuals).. **$79.99**

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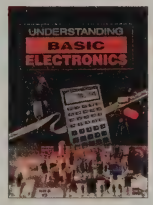

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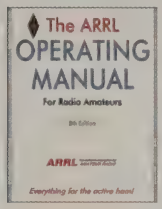

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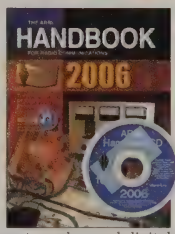

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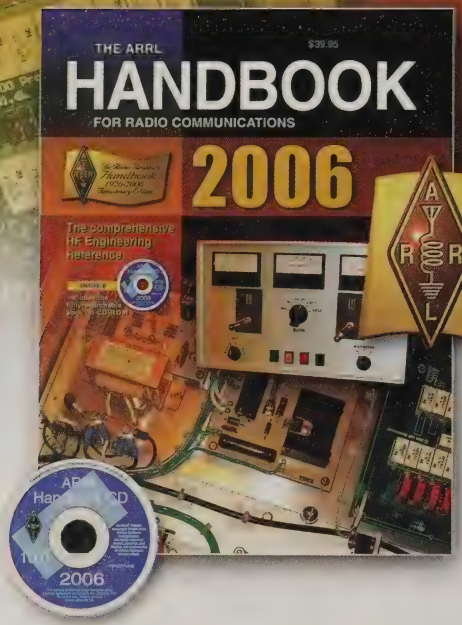


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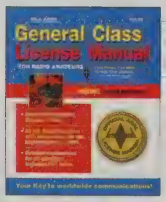


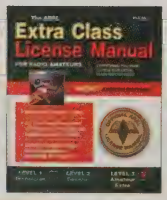


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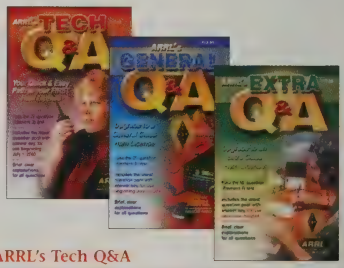


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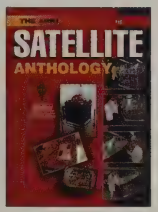


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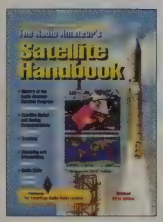


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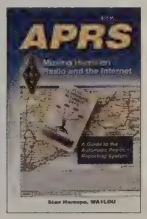


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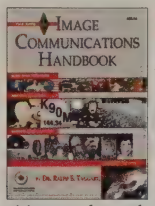


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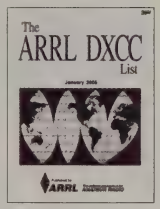


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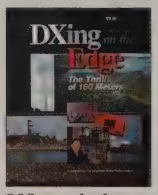


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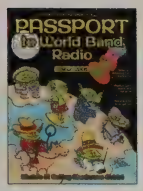


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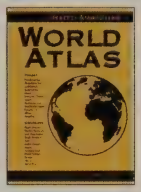


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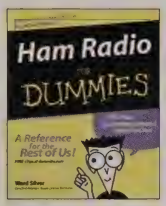


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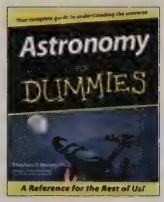


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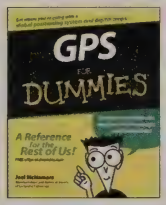


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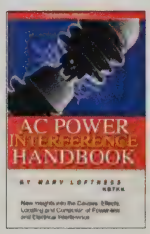


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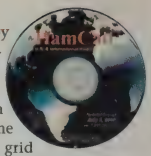
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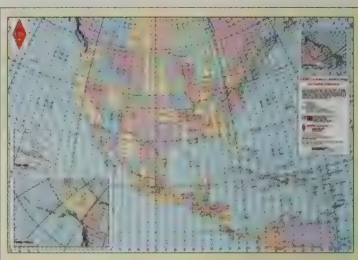

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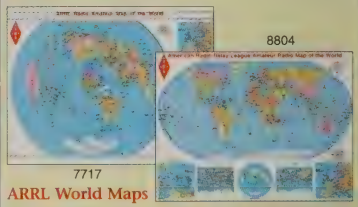


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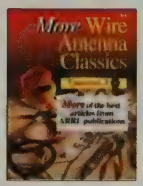
Lots and lots of real-world, practical antennas you can BUILD YOURSELF! 16 chapters on different types of HF, VHF antennas, masts and supports, towers and performance. 70 useful projects.

ARR 8624 **$22.95**

### Vertical Antenna Classics

A range of articles from *QST* and the *Antenna Compendium* series. Selected tips and techniques from QST's "Hints & Kinks". Includes theory, modeling, VHF, UHF, HF, directional arrays, reduced size, radials and ground, antenna product suppliers ... ARR 5218 **$12.00**

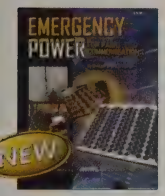



### Wire Antenna Classics

Wire antennas ranging from simple to complex. Find one to deliver the performance you want. Dipoles, broadband and multi-band dipoles, loops, collinears, rhombics, wire beams, vertically polarized and receive antennas are all featured, even a chapter on tree-mounted antennas. ARR 7075 **$14**

### More Wire Antenna Classics

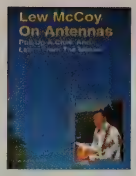
Enjoy even MORE wire antennas! Filled with innovative designs from the pages of QST and other ARRL publications..... ARR 7709 **$17.95**




### Emergency Power for Radio Communications

Explore the various means of electric power generation from charging batteries, to keeping the lights on. Solar Power, Controllers, Generators, (Gas, Wind and Water), Inverters, Instrumentation, Safety.

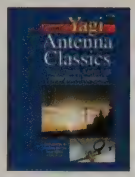
ARR 9531 **$19.95**



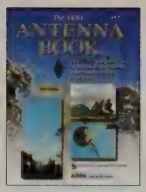

### McCoy on Antennas

Pull up a chair and learn from the master! Loaded with antenna projects for Tech thru the Extra class.. CQX LEWMCCOY **$15.99**

### Yagi Antenna Classics



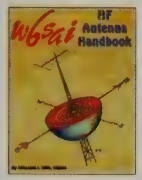

Collection from QST, QEX and others. Provides a historical perspective, novel and ambitious ideas, as well as computer-optimized designs. Chapters on mono/multibanders, HF, VHF and UHF beams, computer modeling, masts ..... ARR 8187 **$17.95**




### The ARRL Antenna Book

In depth coverage of antennas, feed lines, and propagation. THE SOURCE for current antenna theory and a wealth of practical, how-to construction projects. Extensively revised, and featuring antenna designs enhanced by the latest advances in computer modeling. Plus CD!

ARR 9043 **$44.95**

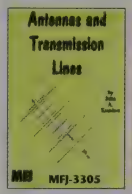



### W6SAI HF Antenna Handbook

Lots of inexpensive, practical projects that work. Great guide for constructing loops, yagis and verticals antennas.

CQX W6SAIHFANT **$19.99**

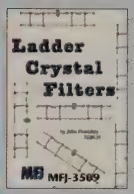
## MFJ PUBLICATIONS



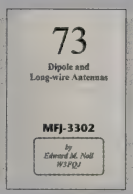

Antenna and Transmission Lines **$19.95**

Practical RF Design Manual **$19.95**

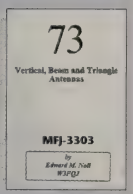
Ferromagnetic Core Design & Application **$19.95**



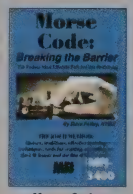

Ladder Crystal Filters **$19.95**




73 Dipole and Long-Wire Antennas **$12.95**



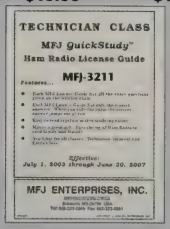

73 Vertical, Beam & Triangle Antennas **$12.95**



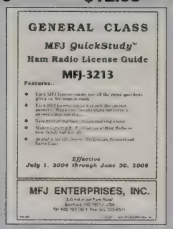

Morse Code: Breaking the Barrier **$19.95**

Solid State QRP Projects **$12.95**

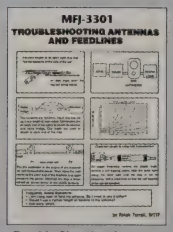
The Fox Hunt Adventure **$7.95**



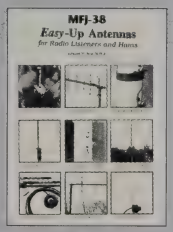

Technician Class Quick Study License Guide **$9.95**




General Class Quick Study License guide **$9.95**

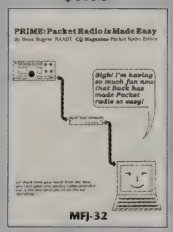



Trouble Shooting Antennas and Feedlines **$12.95**

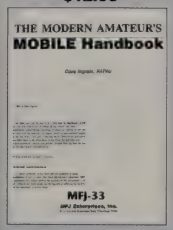



Easy-Up Antennas **$16.95**

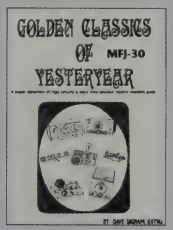
PROH: Packet Radio Operators Handbook **$12.95**



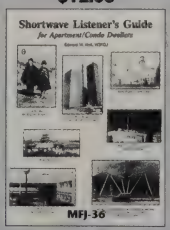

PRIME: Packet Radio is Made Easy **$9.95**



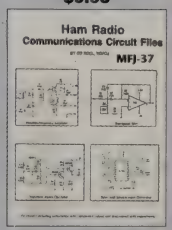

The Modern Amateur's MOBILE Handbook **$12.95**




Golden Classics of Yesteryear **$9.95**




Shortwave Listener's Guide **$9.95**




Ham Radio Communications Circuit Files **$9.95**

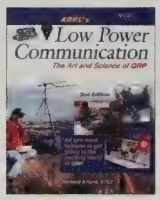
### 2006/07 Pocket Size Repeater Directory

New edition of listings for voice and digital repeaters and propagation beacons located in the Americas. Also find band plans, tone chart, committees, clubs and more ..... ARR 9582 **$10.95**

(2005/06 models shown for ARR 9582 & 9604)

### 2006/07 TravelPlus for Repeaters™ v.9.0 CD

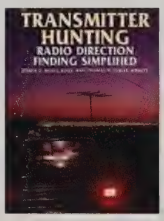
Make it a travel companion, and never be alone on the road. Locate repeaters along U.S. or Canadian routes using map-based software. Integrated maps and repeater data; Access ARRL VHF/UHF Repeater database and Repeater Directory text, including IRLP; Display major highways and cities in U.S. and Canada, more detailed maps, or scanned maps; Trace route and find all repeaters in a range; Customize repeater data; Supports real-time GPS; Works with third-party software; Requires Windows 98SE-XP. Includes Repeater Directory data ..... ARR 9604 **$39.95**




### Low Power Communication 2nd Edition

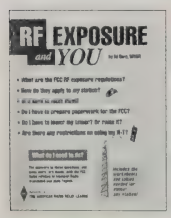
The Art and Science of QRP, by K7SZ. The low power game is one of ham radio's most exciting and rewarding challenges. Here's the low-down on low power operating, from selecting gear, to advanced operating techniques, antennas, emergency communications, solar power, and more! ..... ARR 9175 **$19.95**

### Transmitter Hunting




Practical and fun! Locate radio frequency jammers, other malicious interference and downed aircraft. Do "T-hunting", "Fox Hunts" and help search/rescue. Getting started, equipping a vehicle, hunting techniques, antennas, RDF skills and more.

ARR 2701 **$24.95**




### RF Exposure and You

Hams must comply with the FCC RF Exposure requirements. The FCC Form 610 includes an RF safety certification that must be signed. This book tells how to meet the requirements. Over 200 tables and graphs.

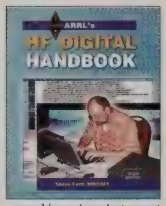
ARR 6621 **$22.95**

### Repeater Map Book 12th Edition

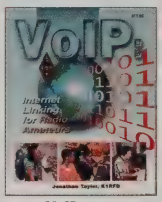
The perfect travel companion containing 100's of open repeater locations throughout the U.S., Canada and Mexico. Detailed maps show all highways and major cities in each state. Grid squares on every U.S. map and NOAA weather frequencies for the U.S.

ART REPEATER MAP **$14.99**

### HF Digital Handbook




**3rd Edition** – Discover the wonders of RTTY, PACTOR, PACTOR II, Clover, G-TOR, Hell-schreiber, MFSK16 & PSK31. All it takes is your computer, an SSB transceiver and an HF modem, multi-mode processor or PC sound card. Learn how to assemble your own HF digital station, send/receive internet email via HF radio, and more! .. ARR 9159 **$19.95**

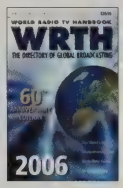



### VoIP: Internet Linking for Radio Amateurs

Growing numbers of hams are using Voice Over Internet (VoIP) Protocol in combination with radios for long-distance communication spanning thousands of miles using the internet. This is a guide to the 4 primary VoIP systems used by hams: EchoLink, IRLP, eQSO and WIRES-II. Designed for beginners and those looking to dig deeper ..... ARR 9264 **$17.95**

### 2006 World Radio TV Handbook

*60th Anniversary Edition*




The world's most comprehensive and up-to-date reception guide to mediumwave, shortwave and FM broadcasting for the serious radio listener. Informational articles, operating hints and latest product reviews..... WAT 059367 **$29.95**

### Celestron Sky Map

Big (11 x 14") durable, spiralbound, book containing basic star map and glow-in-the-dark star finder, seasonal star charts, constellations and characteristics of stars

C/O CEL 93722 **$12.99**

### ARRL Periodicals on CD

Complete text and illustrations for all articles in *QST*, *QEX* and *NCJ* by year. Include search engine, book-marking, windows printing, software project source code, PC board etching patterns and clip-board support. Info by title, name, call sign, keyword, web. Windows™ 3.1 minimum. Individual CDs by year 1995 to 2005 ..... each **$19.95**

**ARR 5579** (1995) • **6109** (1996) • **6729** (1997 ) **7377** (1998) • **7881** (1999) • **8209** (2000) **8632** (2001) • **8802** (2002) • **9124** (2003) • **9396** (2004) **9574** (2005)

### QST Views

Back issues of QST available in full years on CD-ROM. Every page is stored as a black and white image that can be read or printed. Easy to use software allows you to: Search by title and author; Select by year and issue and browse individual articles. For Windows™ 3.1 or higher. Five years per CD-ROM ..... each **$39.95**

**ARR 5781** (1970-74) • **5773** (1975-79) **5765** (1980-84) • **5757** (1985-89) • **5749** (1990-94) **8497** (1995-99) • **9418** (2000-04)

### Vintage Radio

Revisit ham radio of yesteryear. A collection of articles published in QST magazine describing vintage equipment and interesting points in the history of Amateur Radio that will evoke a sense of nostalgia. Articles were published between 1977 and 2003, including classic QST advertisements from the 1920s through the 1970s..... ARR 9183 **$19.95**

### Antenna Compendium Volume 7

Inside, find articles covering a wide range of antenna-related topics including: measurements and computations, mobile and multibands, practical tips and propagation and ground effects. This volume includes even more articles on low-band antennas and operating, and great designs for mobile operation. 208 pages ..... ARR 8608 **$24.95**

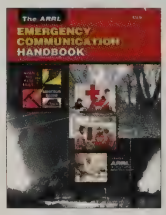
### Antenna Compendium 6 with software

More articles on antennas, transmission lines and propagation. More projects ..... ARR 7431 **$22.95**

### Antenna Compendium 5 with software

Baluns, HF beams, yagis and quads are just some of the subjects covered. Articles on antennas, transmission lines and propagation. Projects to build. Includes IBM software for plotting antenna model data files ..... ARR 5625 **$20.00**

### The ARRL Emergency Communication Handbook



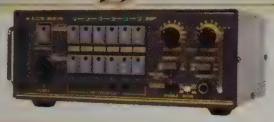

Intended for all hams that volunteer their skills in public service applications (or who are interested in doing so). Includes details on basic emergency communication skills, message handling, and more. Understand what to expect and what to take along. This book encompasses the Amateur Radio Emergency Communications Course (Level 1) manual but adds a substantial amount of additional material..... ARR 9388 **$19.95**

### PkTerm 3.0 and PacTerm 3.0 for Windows CD

**Creative Services Software** 32 bit terminal software for Kantronics, Timewave/AEA TNCs. Operate the Digital Modes: PSK-31, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF and HF packet. Works with single or dual port TNCs or your computer's soundcard with an interface. Requires AEA/Timewave Host Mode or Kantronics TNC Hostmost for TNC interface. For Soundcard Only mode use any of the popular soundcard interfaces like the Hamhub, RIGblaster, or MFJ-1275/79 interfaces. Built-in logging feature.

**CSS PACTERMFORWI** for Kantronics TNCs **$99.99**
**CSS PKTERMFORWIN** Timewave/AEA PK-12/96/232 on CDROM ..... **$99.99**

## NEW COMMUNICATIONS SOLUTIONS



**NCS-3230 Multi-RX Receive Console** – The ultimate in RX audio control from up to 6 receivers! Connect radios, then choose which to monitor, where the audio will appear in the audio field (two modes), and record any or all audio utilizing manual or VOX activation. External recorder required. LEDs indicate which radio(s) are selected. Built-in stereo amp; Front panel volume and balance controls; "Mute All" button; Use headphones/set or speakers or both; LEDs identify active radios; 12 VDC needed. Dim: 8.5"w x 3.3"h x 6.6"d..... **$349.99**

**NCS-1514 Wall Power Supply** – Designed for use with the 3230 above ..... **$24.99**

**NCS-P2PH35-A Cable Kit** – Six cables, 6 ft. long, for connecting radios to the 3230. RCA phono connector on one end and 3.5mm phone plug on the other..... **$26.99**

**NCS-MRX2MS-A Cable Kit** – For interfacing the 3230 to the 3240. Feeds selected audio from the 3230 to speakers or headphones/set connected to the 3240. Selective muting..... **$49.99**

**NCS-3240 The Multi-Switcher** – Switches all equipment (microphone, headset, keyer, footswitch, etc) to any of four different radios using LED-lighted push buttons. Switch between headset, desk/hand microphone, TNC, phone patch, sound card, etc. Matches impedance, audio level and pin-out of nearly any mic to virtually any radio. Switches foot/hand-switch and CW keyer to selected radio. Switches radios receive to external speaker or headphones. Requires 12VDC. Dim: 8.5"w x 3.3"h x 6.2"d..... **$299.99**

**NCS-1512 Wall Power Supply** – For the 3240, 12 VDC output @ 300mA ..... **$12.99**

**NCS-LOZNC Unterminated Cable** – Requires mic connector. Other end is an 8-pin DIN male connector to interface with 3240 ..... **$17.99**

*See NCS in the Price Guide for Radio Cables for Icom, Kenwood & Yaesu radios*

## ICC

**NITELOGGER II**
**Automatic Tape Recorder Activator**
**$69.99**

Accepts audio output from a radio or scanner and provides voice activated relay operation for a tape recorder. When audio is present, an adjustable relay circuit automatically activates the recorder for the duration of the signal, then releases. Simple connection with supplied cables to radio's external speaker jack, tape recorder remote and microphone inputs. An AC adapter is supplied. Dim: 4.37"w x 3.25"h x 2"d.

## SOLDERING TOOLS

### Weller

**SP-23LK 25W Soldering Iron Kit** – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Dim: 8-1/4 in. long, 1-3/4 oz., two-wire 6 ft. cord, 120V.. **$18.99**

**W-60P 60W Pencil-Type Soldering Iron** – For most circuit work. 0.0625 in., 700°F screwdriver tip. Dim: 7.5", 2.5 oz., 6 ft. cord, 120V..... **$68.99**

**WP-25 25W Pencil-Type Soldering Iron** – For work on delicate electronics. 750°F tip temperature. Dim: 7.875 in. long, 1.75 oz., 4 ft. cord, 120V **$35.99**

**WST2 Pyropen® Jr.** – A portable, mini, butane-powered soldering iron. Recharges in seconds from regular cigarette lighter butane (not included). Soldering temperature is adjustable from 392° to 842°F, plus hot blow (806°F) and torch feature (2372°F). Handy pocket clip..... **$89.99**

**WSTA3 Pyropen® Butane Soldering Iron with Case** – Light-weight and completely portable. Operates up to 3-hours on a single charge of regular cigarette lighter butane (not included). Very fast heat-up time, ready to solder in just 30-seconds. Controlled soldering temperature is adjustable from 392° to 932°F. Supplied with tips for soldering, hot air (1202°F), and brazing ..... **$99.99**

**7200PK Multi-purpose Soldering Gun**

Compact, lightweight, but 75 Watts for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest. Includes a carrying case, extra tip and solder. 120VAC..... **$30.99**

**WESD51**
**50W Adjustable Soldering Station**
Quick heat-up, rapid temperature recovery. Microprocessor controlled, LED display shows setting and 350 to 850°F tip temperature. Automatic power off after 90 min. Includes power unit, soldering iron with 3-wire 4 ft. cord, stand and sponge. Dim: 5.9"w x 4.5"h x 3.6"d; 4 lbs . **$149.99**

**WTCPT**
**60W Temp. Controlled Soldering Station**

A ferro-magnetic sensor maintains the tip temperature at 700°F without any adjustments. Closed loop method protects components, ESD safe. Includes: Power unit, iron with 3-wire 4 ft. cord and stand with cleaning sponge. Dim: 4.5"w x 5.94"h x 3.63"d; 4 lbs..... **$119.99**

## WAHL® ELECTRONICS ISO-TIP

**7740 Cordless Soldering Iron Kit** Provides tip performance up to 50 Watts and over 700°F. Contains premium NiCad Rechargeable Battery with high-rate charging; a partially discharged unit will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and work light. Comes with recharging stand, fine and heavy tips ..... **$51.99**

**7971 SolderPro 50** – Usable as a soldering iron, torch, hot knife and heat tool using optional interchangeable tips. No electrical current – heats up from to 410°F to 750°F within 10 seconds and operates up to 30 minutes on a charge of standard cigarette lighter butane (not included)..... **$25.99**

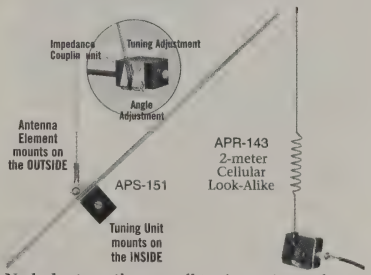
**7974 SolderPro 70** – Usable as a portable soldering iron, torch, hot knife and heat tool using optional interchangeable tips. No electrical current – heats up from 410°F to 850°F within 10 seconds and operates up to 120 minutes on a charge of standard cigarette lighter butane (not included)..... **$38.99**

## KESTER Rosin Core Solder

Perfect for all ham radio and other electrical applications. The 60% tin, 40% lead composition, .040" diameter and 374°F melting temperature allows quick and secure connections. Non-corrosive. Comes in a handy 1/2-oz. dispensing tube..... **KES 82-5000-0004 $2.99**

## ANTENNA SPECIALISTS

"On-Glass" Mobile Antennas




**No holes to cut!** – a small tuning unit attaches to glass inside the vehicle and couples capacitively through-the-glass to the stainless-steel black DURACOAT electrical 1/2-wave radiating element mounted on the outside. Both the **APS-151** and the **APR-143** cellular look-alike cover 144-174 MHz and are rated at 50 Watts. Includes removable adhesive, 15 ft. of coaxial cable with PL-259.

**APS151** – 2m, 33 in. radiator ..... **$69.99**

**APR143** – 2m, cellular look-alike, 23 in.. **$69.99**

GAP

Noise Eliminating Speaker

**HEAR IT** – Incorporates DSP technology that is fully adaptive to any change in background or man-made noise levels, and effectively attenuates it up to –20dB. This dramatic drop in noise level results in clearer and less fatiguing audio.

The *'Hear it'* has the capability to reduce noise equal to, or better than, DSP systems built into several popular radios. If your radio already has DSP, the *'Hear it'* will provide additional improvement in copy. If it doesn't have DSP, there will be a huge improvement in readability.

Eight user-selectable noise cancelling levels, or cancelling can be switched off entirely. Plugging headphones or another speaker into the audio bypass jack mutes the speaker, but retains DSP noise reduction. A built-in amplifier provides 2.5W of audio power. Requires 12–28VDC @ 500mA. Includes a 6.5 ft. lead with 3.5mm mono plug. Dim: 4.5"w x 2.75"h x 2.25"d .... **$159.99**

In-Line DSP Module

**IN LINE MODULE** – Provides the same audio enhancing and noise reduction features as the *'Hear it'* speaker above, but without the speaker. Built-in 5W audio amplifier for your station speaker. Has 3.5mm mono and RCA phono audio input/ouput jacks and headphone jack. Requires 12-24VDC @ 500mA. Includes 3.5mm to 3.5mm audio cable and fused power leads.
Dim: 6.75"w x 3.35"h x 1.4"d; 1 lb..... **$199.99**

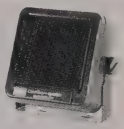
SGC

ADSP² Speaker

**70-14** – An affordable solution that will deliver top of the DSP Noise Reduction for ANY transceiver. The ADSP² speaker has two convenient push button switches. One button toggles between 0, 13dB or 26dB of noise cancellation and the second selects 1 of 3 bandpass filters (100, 500 & 1500 Hz). It provides -45dB out of band reduction with one-click operation. There is a headphone jack for private listening. The black metal enclosure features an adjustable stand and wired cable for audio input (mono mini plug) and for 12 VDC @ 110-500mA input
Dim: 3"h x 5"w x 2.5"d; 11 oz..... **$129.99**

We accept I.M.P.A.C.® Government Credit Cards

## MISC. MFJ

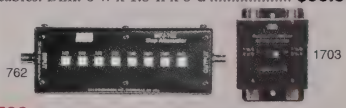


**281 Communications Speaker** Features a rugged 3 inch *Mylar* cone speaker mounted in a well-designed baffle. Improves speech intelligibility in the 600 to 4000 Hz range while reducing undesirable noise, static and hum. Dim: 3.75"h x 3"w x 2.25"d..... **$12.99**

**382 Deluxe Amplified Speaker** Excellent for QRPers, base station HTs or rigs requiring more volume. A quality 3 in. speaker provides plenty of audio. All metal cabinet, rubber feet and vinyl clad cover. Uses 9V battery or 110V AC with optional MFJ-1312D. Cable included. Dim: 3.5"h x 1.75"w x 4.5"d.. **$39.99**

**890 DX Beacon Monitor** – Use as an aid to check band conditions worldwide in just three minutes. It requires no connection to a transceiver. The beacon monitor is a stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the beacon activation sequence. LED indicators positioned across a world map show which of the 18 beacons is active at any given time. Storing the beacon frequencies in transceiver memory allows quick switching as one listens for beacon transmissions. When a beacon is heard on any of the frequencies, that band is open to the location indicated by the corresponding LED. Requires 12VDC or 110VAC with the optional MFJ-1312D. Dim: 6.75"w x 5.25"h x 3"d..... **$99.99**

**1263 Microphone Control Center** – Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Eliminates swapping connectors. Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig's volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Great for inputting sound card, SSTV, AFSK, TNC and other audio sources. Includes two 8-pin round radio cables. Dim: 6"w x 1.5"h x 5"d ..... **$99.99**




**762 Step Attenuator** – Push-button selection of up to 81dB attenuation in 1dB steps up to 170 MHz (usable to 500 MHz). 50 ohms; rated 250 mW maximum; BNC connectors with SO-239 adapters; metal cabinet. Dim: 6.5"w x 2.5"h x 1.5"d.... **$69.99**

**1703 Antenna/Transmitter RF Safety Switch** Select between two rigs and two antennas. Prevents rig from transmitting if not terminated. Range: 1.8-30 MHz; up to 300W SSB/150W CW, 50-75 ohm coax. Metal cabinet with mounting tabs. Dim: 6.5"w x 2.5"h x 1.5"d..... **$19.99**

**616 Speech Intelligibility Enhancer™** – Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand SSB, FM, AM, CW & QSOs by adjusting response levels to match hearing response for best clarity, then equalizing perceived loudness to each ear. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable transceiver inputs; bypass switch. Use with rig or PA. Dim: 10"w x 2.5"h x 6"d; requires 12 VDC ..... **$169.99**

**1040C All-Band Preselector** – Improves reception while rejecting out-of-band signals and images on four bands: 1-3, 3-7, 7-18 and 18-54 MHz. Low-noise 20dB gain MOSFET amplifier with a gain control and 20dB attenuator handles a wide range of signal levels. Usable with transceivers up to 125W; a relay automatically bypasses the amplifier on transmit. Push buttons select 20dB attenuator, two antennas, two radios, power On/Off. Controls for delay, gain, band and tune. Unit is bypassed when off. Requires 9-18VDC or MFJ-1312D ($14.99)..... **$99.99**

**624D Deluxe Hybrid Phone Patch** – Interfaces a telephone line with a rig. Jumper selectable for all 8-pin Kenwood, Icom, Yaesu and Alinco transceivers. Adapts to work with virtually any rig. Uses 12VDC, 9V battery or 110VAC with optional AC adapter. Dim: 8"w x 2"h x 6"d..... **$119.99**

**1020C Indoor Active Antenna** – Covers 300 kHz to 30 MHz in 5 bands. Telescoping (21") antenna provides good receive signal strength. Functions as a preselector when using an external antenna. Improves selectivity, reduces noise. Uses 9V battery, 9-18VDC or 110V. Dim: 5"w x 2"h x 6"d... **$79.99**

**1024 Outdoor Active Antenna** – Covers 50 kHz to 30 MHz. A separate RF amplifier module with 54 in. whip antenna mounts outside and connects by supplied 50 ft. coax to the control inside. Control contains gain control and 20dB attenuator. Select between two receivers and auxiliary antenna. Auxiliary input and output jacks. Uses 12VDC or 110VAC with adapter. Dim: Control 6"w x 2"h x 5"d; Module 3"h x 4"w x 4"d..... **$129.99**



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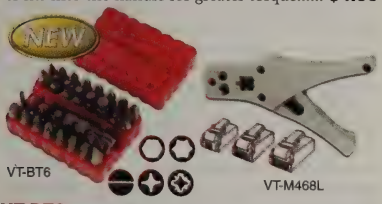
## Velleman Inc. TOOLS

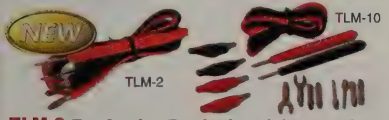
**VTTS 25 Piece Multi-Purpose Toolset** – A quality toolset for the electronic engineer and hobbyist. **Includes:** 4.75" universal handle, 3" extension, 9 different bits, hex adapter, (4) 1/4" drive sockets, tweezers and plastic case. Dim: 6" x 4" x 2". **$9.99**
**Bits:** (Slotted) 1/8, 3/16, 1/4"; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25. **Sockets:** 4, 5, 6 and 8mm 1/4" drive. **Precision screwdrivers:** 4 slotted, 2 Phillips. **Pliers:** 4.5" mini diagonal, 5" mini long nose

**VT-SET21N 8-in-1 Screwdriver Set** – Includes 4 Phillips and 4 slotted screwdrivers. Each screwdriver fits into the handle for greater torque..... **$4.99**

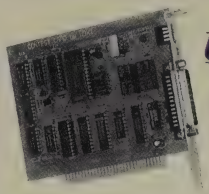



**VT-BT6 33 piece Screwdriver bit set** – Includes **Hex:** #2, 2.5, 3, 4, 5, 6; **Star:** #T10, T15, T20, T25, T30, T40; **Flat:** 3, 4, 5, 6, 7; **Phillips:** 1 PH0, 2 PH1, 2 PH2, 2 PH3; **Pozzi:** 2 PZ1, 3 PZ2, 2 PZ3; **Magnetic bit holder:** 14" hex..... **$6.99**
**VT-M468L Crimp Tool** – For RJ10, RJ11, RJ45 (4P4C, 6P4C, 8P8C) modular connectors ..... **$9.99**

**VT-SET3N 6-Piece Electronics Screwdriver Set** Includes: T6, T7, T8, T10, T15 x 50mm sizes. Each 4.2 in. screwdriver has its own handle..... **$9.99**
**VT-LAMP2U Magnifier Lamp** – A 22W, circular fluorescent lamp with 1.75x magnifying glass, 41 in. arm length and table edge mount..... **$49.99**




**TLM-2 Test Leads** – Two leads with banana plugs. Length: 30/37 in. Rated: 1000V/15A..... **$2.99**
**TLM-10 Test Probe set** – (4) crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks ..... **$4.99**



**UM Unified Microsystems**

### W9XT Contest Card for IBM™ & PC Compatible

A non-volatile 5 x 4.5 in. card that plugs into a single 8-bit ISA PC slot and provides Voice Recording, Playback and CW keying from your computer. Stores a total 60 seconds of voice audio divided into four 15 second messages. Samples at 8 kHz for high quality and natural sound. Does not use any disk space. For CW, the card frees up the PC port, and a relay allows operation with positive or negative keying. Works with all rigs and is compatible with most popular logging programs..... **$139.99**
**CCC-8 Contest Card Cable Semi-kit** – Wired and tested except for connectors to mic and transmitter. Includes 6 ft. shielded cable, CW keying line and record switch (8-pin).. **$44.99**

## PORTABLE PACKS MFJ

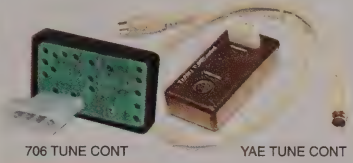
**18 HamGear™ Tactical Chest Harness** Perfect for rugged use, emergency radio operators and on-the-go hams! Use it for portable hamfest use, DXpeditions, field day, biking, hiking, etc. Made of durable heavy duty twill burlap, this interwoven fabric is water resistant and will cushion blows and scrapes. Adjustable shoulder straps. Harness is firmly held in place by stretchable inter-woven elastic belt with snap hook and adjustable sliders supported by nylon straps. An additional 5 x 7 in. cargo pocket holds another radio, accessories, maps, etc..... **$29.99**
**15 HamGear™ Belt Radio Holder** – Durable twill burlap pocket with elastic cord and velcro closure easily stretches over any HT. Belt slides easily through 2 x 3 inch loop..... **$14.99**

## Communications Outfitters

**EXP-1 Expedition Pack** – Designed for the Yaesu FT-817. Allows backpack style or table top operation with complete access to all controls, front and rear. A zippered pouch on both sides securely holds most any antenna in the collapsed position for travel. Radio compartment is divided so the top section will hold the FT-817, and the lower compartment can be used for an amplifier, tuner, accessories, or another radio. Made of high quality, durable nylon with plastic panels for rigidity and water-resistant for added rig protection. Dim: 12"w x 4"h x 15"d .. **$99.99**

## The Better RF Company

**I-MATE Accessory for ICOM PRO Series** Provides external selection of pre-recorded voice and keyed messages for the 756PROII & III and keyed CW messages for the 746PRO. Eliminates shifting the display from operating mode to memory select mode to transmit pre-recorded messages. Four buttons transmit associated messages. Provides pulsed sine-wave oscillator for safe tuner and amplifier tuning. Has alternate audio input for second mic. Plugs into transceiver microphone jack. Receives power from the available voltage..... **$74.99**




**706 TUNE CONT Tune up Control for IC-706/718** – Plugs into Molex connector on rear of radio. Converts radio's TUNER/CALL button function to TUNE MODE which limits RF output to 8-10W and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No need to switch to AM or RTTY or hold the PTT. Works 160-6M, except not 6M with original IC-706..... **$32.99**
**YAE TUNE CONT Tune up Control for Yaesu FT-100, FT-857 and FT-897** – Makes the radio's TUNE button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., in any mode. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers..... **$44.99**

**Palomar Engineers**

### VLF CONVERTERS

Receives and converts the 10 kHz to 500 kHz VLF band to tune in the 4 MHz range. Select model to tune on a General Coverage receiver or Ham Band transceiver. Uses 9V battery. Dim: 2"h x 4.25"w x 5"d.
**VLF-A** – For Ham band transceiver..... **$99.99**
**VLF-S** – For general coverage receiver .. **$99.99**

## MFJ Clip Window Mount for Handheld Antennas

When mobile, detach the antenna from your HT and install on this handy clip window clip mount. It holds the antenna securely on the glass outside of your car and dramatically improves both transmit and receive signals. Comes with 10 ft. of mini-coaxial cable. Order MFJ-310 with BNC connector or MFJ-310S with SMA..... each **$14.99**

## WEST MOUNTAIN RADIO

### RIGrunner

The most convenient and safest way to connect to a 12VDC source and distribute it to all equipment. Base or Mobile – no messy binding posts, frayed wire connections, black tape or short circuits – eliminate those wall warts.

- Anderson PowerPole® crimp or solder connectors provide a safe secure, hot connect, polarized, color keyed, genderless connector system
- Conservatively rated at 40 amps total with any outlet good to 40 amps
- Each outlet is individually fused an automotive ATC/ATO fuse; blown fuse LED shows status
- Conforms to ARES/RACES, RSGB, ARRL recommendation for high current 12VDC connectors

**RR/4010S/C** 10 Outlets – One "always on" outlet and (9) auto or manually-controlled switched outlets. A FET On/Off system controls entire station with the power button on your rig. Quick status LED and audio voltage monitor. Includes 12 pair Powerpole® crimp-solder connectors ..... **$124.99**

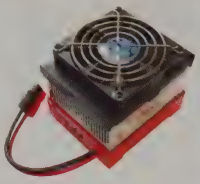
**RR/4012/C** Intelligent DC Power Panel – Neatly distributes 12V, up to 40A, from power supply or battery to transceivers and accessories. Perfect for home and mobile applications. 12V input connection fused at 40A and 12 pair of outlets supplied with assortment of standard automotive fuses. LED "open" indicators on every fuse. LED voltage monitor indicates normal voltage, LEDs and audio alert for over/undervoltage conditions. 6 ft. DC cable and 12 pair of Anderson Powerpole® crimp-solder connectors. Dim: 11.8"w x 2.7"h x 1"d..... **$114.99**

**RR/4008/C** 8 Outlets – Quick status precision LED and audio alert voltage monitor. For small or mobile installations or as expansion unit. 12 pair crimp solder connectors. Dim: 5.75"w x 2.7"h x 1"d **$94.99**

**RR/4005/C** 5 Outlets – DC power panel, for small/mobile installs or as expansion unit. 6 pair crimp solder connectors. Dim: 5.75"w x 2.7"h x 1"d **$69.99**

**PG-40** PWRgate Backup Power System
A must for the Hamshack, Repeaters, Emergency Communications Centers, etc. Keeps equipment operational during power failures by instantly switching to a back-up 12V battery or power supply (not supplied). Rated up to 40 Amps continuous and a built-in mini-charger keeps the connected battery fully charged and ready for emergency operation. Output via Anderson 40A Powerpoles®, connectors not supplied. Dim: 1.64"h x 3.9"w x 5"d .... **$69.99**

**PG-40S** Super PWRgate Backup Power System
Similar to PG-40 but includes a built-in four-stage battery charger with selectable current rates of 1, 4, 7 or 10 amps.. The charger circuit is optimized for use with GELLED & AGM type batteries, but will keep flooded lead acid and marine type batteries near full charge as well. The Super PWRgate and the power supply may also be used to charge a battery that is powering the radio..... **$119.99**



**CBA-2** Computerized Battery Analyzer
Test virtually any type or size of battery, any chemistry, any number of cells up to 48V. Capable of up to 40A or 150W, whichever is higher. Determines battery capacity in amp-hours, and graphically displays and charts voltage versus amp-hours which may be saved and printed. Quiet fan cooling and LED status indicators. A micro-controller provides plug-and-play with your computer. Includes CD-ROM and 6 ft. USB cable. ..... **$99.99**

**CBA/TEMP** Temp Probe for CBA-2.....**$10.99**

**RT-1** RigTalk USB to serial converter with TTL output – Provides USB Serial control or programming of any radio with a TTL level interface, CAT or CI-V. Compatible with USB 2.0 or lower. Convenient pocket sized USB dongle design. Comes with a CD-ROM provides plug and play installation and includes a collection of third party software. Cables available for all ICOM and TEN-TEC CI-V controllable radios and newer YAESU CAT..... **$49.99**

**CATMINI/CBL** Yaesu Cable for RT-1 ..... **$12.99**

**CIV/CBL** ICOM/TEN-TEC Cable for RT-1. **$7.99**

**WHAT/MTR** – Plug it in to any Powerpole® equipped circuit and simultaneously read Voltage, Amperage and Amp/hours, fully automatic. Reads up to 60 Volts DC, 75 Amps and 94 Amp/hours. Dim: 3.8"w x 2.1"h x 0.9"d; 4 oz..... **$69.99**

**PWR/TOOL** Powerpole® Crimp Tool – Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps every time ..... **$49.99**

**C30/PK/12** – 30A PowerPoles®... 12 pair **$10.99**

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## Q-VIEW QSL Card Holders

Proudly display and protect your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds (20) 3.5" x 5.5" cards. Opens at center to receive cards easily.

**Pack of three will display 60 cards.**

**ART QSLCARDHOLDE**..... **$18.99**

GLEN MARTIN ENGINEERING — SBI Certified

## FULL BODY CLIMBING HARNESSES

SkyClimber™ *(left)* Chest-high front D-ring for fixed climbing. Made of polyester, easy on/off. Two D-ring harnesses offer sliding D-ring at center of back, and chest-high front D-ring. Four D-ring harnesses have sliding D-ring at center of back, chest-high front D-ring, and D-ring on each hip.

**FP-5600** – Two D-ring, 2.7 lbs., S-M..... **$89.99**
**FP-5601** – Two D-ring, 2.8 lbs., L-XL..... **89.99**
**FP-5602** – Four D-ring, 3.0 lbs., S-M..... **106.99**
**FP-5603** – Four D-ring, 3.2 lbs., L-XL..... **106.99**

StarClimber™ *(right)* Six D-ring tower saddle harnesses with padded seat and shoulder straps, and removable tool belt. Sliding D-ring at center of back, chest-high front D-ring, D-ring on each hip and each end of seat strap, black 1.75" nylon tongue buckle leg strap, red 1.75" polyester shoulder straps, two accessory rings attached to 5" padded backpad and seat-strap, and carry-all bag.

**FP-6600** – 5.0 lbs., extra small..... **$260.99**
**FP-6601** – 5.1 lbs., small..... **236.99**
**FP-6602** – 5.2 lbs., medium..... **236.99**
**FP-6603** – 5.3 lbs., large..... **236.99**
**FP-6604** – 5.4 lbs., extra large ..... **236.99**

**RT3-4653** Locking GearKeeper™ Two-Way Radio Tether for Handheld – Prevents loss or damage from device being dropped. Easy connect and disconnect. Has a retractable 32 in. tether with 24-ounce return force. Full 360° rotating belt clip ..... **$26.99**

**RT2-4012** Mic Keeper™ – Tired of fumbling with your microphone? Why not grab it, use it, let it go? Retractable 20 in. tether with 12-ounce return force and snap clip, attaches to D-ring or belt loop. The ultimate way to keep track of your microphone ..... **$19.99**

## YAESU

**FTV-1000** 200W 50 MHz Transverter for the FT-1000MP MK V – Utilizes the same high-performance power MOS-FET transistors as the MK V. PA stage operates at 30VDC, provided by the MK V power supply. Output devices, capable of 300W PEP, are run well below their maximum ratings for high reliability and a thermostatically controlled cross-flow cooling fan keeps operation cool. Exclusive Class-A bias capability provide the cleanest SSB signal on the band. It also features a high dynamic range receiver front end, utilizing a high-intercept design with JFETs in a double balanced mixer. Driving the mixer is a low-noise-figure MOS-FET preamp, two gain selections available. For local, select IPO, bypassing preamp for direct feed to the mixer. 12dB attenuator available when working with extremely strong local signals. Rocker switches control all functions..... **Closeout $949.99**

**HRI-100** Amateur Radio Internet Linking Kit Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet, greatly expanding the coverage area. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD (including manual), power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card in/out cables and WIRES™II user/server agreement..... **$149.99**

*More WIRES™II wide-coverage internet repeater enhancement system information can be found at www.vxstd.com/en/wiresinfo-en/*

**VXR-7000VA** 50W 2M FM Desktop Repeater A long list of built in features, sets the standard for a mid-power, continuous duty repeater application. Attractive housing and user-friendly controls. In the most demanding environments, the VXR-7000VA will provide years of reliable service. 136-150 MHz; 16 channel synthesized; 10-50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display*; CW transmitter I.D.*; Time-out, hang and guard* timers; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, automatic DC supply back-up.
Dim: 4.5"h x 12.8"w x 15.4"d; 22 lbs **$1269.99**
** Dealer programmed feature*

## ESP

**ESP-1** Microphone Audio Processor – Now you can improve your communications clarity with the addition of Compression (AGC), a Noise Gate, plus Bass and Treble adjustment. A backlit LCD displays all functions for monitoring during operation. The input/output level controls make it easy to configure the ESP-1 for any transceiver with an 8-pin microphone connector. EZ to operate, there are no complicated switching or unnecessary functions.. **$225.99**

**COMPRESSION/AGC:** Adjustable from 0 to 14 dB, keeps modulation constant with varying speech level. Increases average speech level, adds punch and intelligibility.

**NOISE GATE:** Eliminates background noise present in the ham shack (blowers, A/C units, conversation, etc.) during pauses in speech.

**BASS & TREBLE:** Adjust to your personal preference by listening to the ESP-1 output with headphones using the rear mounted jack.

## GROTHE ELECTRONICS

### SIRENS & HORNS

**VS-2** Emergency Vehicle Siren – For the volunteer fireman. A quality-built wail-yelp alarm that delivers a 120dBa sound level at 4 ft. with a frequency range of 600 to 1200Hz. Pre-wired with a 3-position switch (Yelp-Off-Wail). Includes a waterproof horn speaker, 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A; 2.7 lbs..... **$89.99**

**VS-3** Vehicle P/A and Airhorn with Rebroadcast Powerful airhorn sound with 4 different sounds (no siren) Delivers 120dBa level at 4 ft. Locking down the microphone with the supplied rubber band, you can monitor sound from a mobile rig via the speaker outside. Includes horn speaker, microphone, electronic center, 10 ft. cable, mounting bracket and hardware. 12 VDC @ 1.5A..... **$129.99**

**VS-4** P/A Emergency Vehicle Siren – Contains P/A, rebroadcast, wail, yelp, pulse and airhorn. P/A over-ride features, plus volume control of all siren modes. Restricts output when operating in people places. Includes horn speaker, microphone, electronic center (3 x 3.5 x 2 in.), 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A..... **$139.99**

**VS-2LS** Siren–Light Combo A one-unit siren and yelp alarm, revolving halogen light and window mount. Fits all cars, slides on top of car window and plugs into cigarette lighter. The power plug contains an "on" LED and three position switch to select Yelp, Off or Wail modes. 12 VDC @ 5A. Specify AMBER, BLUE or RED light **Special Order**... each **$299.99**

## ICOM

### D-Star System

D-Star is a 128K open protocol data system combining analog and digital into a seamless communications network at 1.2 and 10 GHz. For example, while in a vehicle, visually communicate what is happening simply by e-mailing a photo or live video. Icom is the first to introduce products for this innovative communication system. There are repeater and backbone components, and the ID-1 transceiver can be configured as a mobile or base station. Open protocol TCP/IP structure; Digital voice and data capability; Data 128K (130 kHz bandwidth); ATM multiplex (on the backbone); Multi-site capability with high speed microwave backbone 10Mbps; Internet interface capability; Repeaters handle both digital and analog voice.

**ID-1** 10W 1.2 GHz FM Digital Transceiver with Control Head – Operates with current analog 1.2GHz repeaters, plus simplex digital operation with another ID-1. Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes alphanumeric memories, CTCSS encode/decode and scanning, Full PC control via USB port and supports 10 BASE-T ethernet for 128K data operation..... **$999.99**

### HIGH PERFORMANCE MICROPHONE ELEMENTS

**For a Big Boost in audio performance, replace the cartridge in your factory microphone with a Heil Element; the same elements used in their High-Performance microphones. Tiny in size, they easily replace existing cartridges in most microphones.**

**HC-5** Full Range Articulation Element Make your rig sound better and more intelligible to the listener by providing full articulation and more clarity than a factory microphone can provide. A 350 to 4000 Hz response with a sharp roll-off under 300 Hz and above 3100 Hz, with a peak at 2100 Hz produces very clear, easy-to-understand audio that will get you lots of on-the-air compliments..... **$45.99**

**HC-4** The "DX Dream Machine" Element Produces super audio clarity with more PUNCH for difficult conditions like contests, DX & weak-signal VHF/UHF work. Outstanding results on pile-ups, aurora and backscatter where SSB signals need maximum penetration and intelligibility. Designed with 500 to 3800 Hz response with a 10dB peak @ 2000 Hz & sharp 12dB per octave roll off @ 500 Hz which gives it a sharp sound that really penetrates under difficult conditions, but is not real pleasing to the listener for everyday rag chewing..... **$45.99**

LDG ELECTRONICS

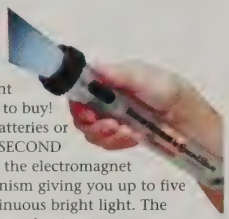
## FT-Meter

### Plug-in Multi-function Meter for Yaesu's FT-857 and FT-897 transceivers

Features a highly readable 2.5 in. meter face with calibrated scales for: Signal Strength, Discriminator Readings, Power Output, SWR, Modulation, ALC Action and Supply Voltage. Each function is selectable from the radio's menu with separate settings available for transmit and for receive. Large enough to make it easy to read from nearly any location on your desk or dash. No modifications, simply plugs into the meter jack on the bottom of the front panels. Requires 12VDC @ 100 mA for illumination. Dim: 3.5"w x 3"h x 2"d; 0.5 lb..... **FT-METER $49.99**

**908** Talking Electronic Chess Computer
Go up against this chess pro for a challenging game! Magnetic board and chess pieces – pieces store conveniently in compartment under board. Expert strength – estimated 2000 rating; Speaks to player in English, French and German. Includes special teaching and coaching features. 136 selectable levels from beginner to expert. Easy-to-read LCD shows how much time each player has on dual clocks, every move for both player and computer, move counter, automatic scoring, and info mode (what computer is "thinking"). Auto shut-off with memory save; selectable opening lines for play and learning, and lots more; Operates on 3 AA batteries.
Dim: 12"w x 1"h x 9.98"d; 1.75 lbs ..... **$59.99**

**H-422**
### Forever Flashlight



The last flashlight you'll ever need to buy! It never needs batteries or bulbs! Just a 30-SECOND SHAKE activates the electromagnet charging mechanism giving you up to five minutes of continuous bright light. The clear case shows mechanism in operaton. Super bright LED is visible for up to one mile. Great for cars, boats, campers and emergency kits. Waterproof and it floats in water.
Dim: 10.5" long x 1.5" dia; 12 oz ..... **$29.99**

**H-423** Micro Forever Flashlight – Same features and operations as the H-422, but smaller.
Dim: 7.375" long x 1" dia.; 5.6 oz ..... **$24.99**

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## BOUNTY HUNTER METAL DETECTORS

### METAL DETECTORS

**LAND STAR**
Boasts more features than other costly detectors. Includes a Bounty D-Tech™ open-face search coil, advanced microprocessor electronics, 3-tone discrimination and Ground Trac® retune. A multi-function LCD and touchpad control make it equally at home relic hunting, coin shooting, or gold prospecting. Set the notch to reject items, or let "Auto Notch" detect coins 12 in. deep.. **$349.99**

**FAST TRACKER**
Newcomers to treasure hunting should not be shortchanged when it comes to features – or quality. That's why there's the Fast Tracker™. It offers 7 in. Bounty D-Tech™ search coil (adjustable angle), dual-tone audio discrimination, motion all-metals mode, auto ground balance, low-battery alert, built-in speaker, headphone jack, and lightweight S-rod comfort-grip handle with stand ..... **$99.99**

**SHARP SHOOT II**
Treasures missed by generations won't escape the Sharp Shooter II™. Digital LCD, touchpad control, and interchangeable Bounty D-Tech™ search coil. Also features 3-tone audio discrimination, selectable auto/manual notch level, auto ground balance, battery indicator, S-rod comfort-grip handle with stand, headphone jack, and built-in speaker ..... **$299.99**

**TRACKER IV**
The optimum combination of power, ease-of-use, affordability, and big finds everytime. The Tracker IV™ is built with a fully-submersible 8 in. Bounty D-Tech™ search coil, sensitivity meter, built-in speaker, headphone jack and battery indicator. Tracker IV features three different user-adjustable operating modes: Motion All-Metals Mode, Full Discrimination, and Tone Discrimination . **$129.99**

**LAND RANGER**
Offers many high-end features for the serious detectorist. Designed for every metal detecting application at a pro level. Touchpads keep all modes at quick and easy access while the LCD emits a constant reference source maximizing every possibility for finding treasure. It features an 8 in. waterproof, interchangeable search coil and SmartTrac® ground control ..... **$449.99**

**QUICK DRAW II**
The Bounty Hunter Quick Draw II™ metal detector packs many powerful features, like an advanced Zilog Z-86 circuit, for superior discrimination and control. Also includes waterproof Bounty D-Tech™ search coil, three levels of iron discrimination, both target ID and depth readout, sensitivity control, full discrimination, auto and variable notch, and low battery indicator. Detects up to 10 in. deep and larger objects up to 5 ft..... **$229.99**

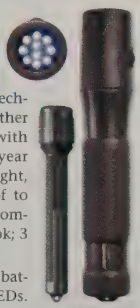
**TIME RANGER**
Recover more relics and valuables from the past then ever before. The Time Ranger's powerful circuitry and smooth operation combine to deliver absolute performance. The innovative Sniff-Mode can be used in specialized applications when rejection or acceptance of a particular object is desired ..... **$549.99**

### BOUNTY HUNTER ACCESSORIES

**CARRY BAG** Padded Carrying Case – Protects metal detectors from the elements, in storage and transit. Rugged, double-stitched, nylon construction. Includes outside zip-pocket ..... **$29.99**

**10" COIL** 10-inch Magnum Coil – Adds extra depth for relic and cache hunting ..... **$49.99**

## Lightwave



Modern flashlights using LED technology. Lights an area like no other flashlight! 25-day batteries (with diminishing brightness); 11-year (typical), solid-state LED's; Bright, diffused white light; Waterproof to 2'; Shock-proof, high impact composite case with lanyard and hook; 3 year warranty, including LEDs

**LW-2000** *(left)* – 3 AA alkaline batteries (included) power 4 LEDs. Dim: 7.75" long, 1.25" diameter..... **$29.99**

**LW-4000** *(right and end view above)* – 3 D alkalines power 10 LEDs. Dim: 10.75" long, 2" dia... **$59.99**

**LW-3000** – Like LW4000, but smaller. 3 C alkalines power 7 LEDs Dim: 8.75" long, 1.625" dia .. **$49.99**

**LW-HT** Illuminator™ Head Torch – 1"-wide adjustable strapping secures light to the head. Up/down adjustable. 4 high-intensity LEDs powered by 3 AA batteries (not included) provide super-bright light visible for over one mile, over 330 hours ..... **$39.99**

**LW-PB** PocketBright™ Flashlight – Includes key ring, neck lanyard and velcro patches. Single, high-intensity LED, powered by 2 included Lithium batteries, provides over 50 hours of light that can be seen across a full-sized room ..... **$19.99**

# SONY WORLD BAND RADIOS

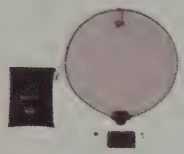
**ICF-SW11** Compact Analog Portable Coverage: LW (141–290 kHz), MW (525–1620 kHz), FM (88–108 MHz) and nine Shortwave Bands: 4.75–5.06, 5.9–6.2, 7.1–7.35, 9.4–9.99, 11.6–12.1, 13.57–13.87, 15.1–15.8, 17.48–17.9 and 21.45 to 21.75 MHz. Easy analog tuning with LED tuning indicator; FM stereo available at headphone jack; 2-1/4 inch speaker; DC input jack; Flip stand; Wrist strap. Uses two "AA" batteries or 3 VDC.
Dim: 6.5"w x 3.75"h x 1.3"d; 12 oz..... **$49.99**

**ICF-SW12** Shortwave Analog Clock Radio – For the traveller; compact size and protective lid. Coverage: FM, AM and SW bands (1–9) 4.75–5.06, 5.9–6.2, 7.1–7.35, 9.4–9.99, 11.6–12.1, 13.57–13.87, 15.1–15.8, 17.48–17.9 and 21.45–21.75 MHz. LED Tuning Indicator for precise center-frequency indication and accurate tuning; Bandspread; Sophisticated backlit LCD World Clock display; Built-in alarm with snooze function; Summer time adjustment; Built-in AM ferrite bar and telescopic FM/SW antenna; 1.8 inch speaker; Earphone jack; Shortwave Guide. Uses two "AA" batteries.
Dim: 4.3"w x 3.1"h x 1.2"d; 8.2 oz..... **$89.99**

**ICF-SW35** Digital Portable – PLL synthesized, dual conversion superheterodyne (except FM band). Coverage: LW (150–285 kHz), AM (530-1710 kHz), FM (76-108 MHz) and SW (2250 kHz to 26.1 MHz). FM stereo at headphone jack. Tuning via: UP/DOWN buttons, 50 memory presets or automatic memory scan. Memories are in 5 banks of 10 presets each, are non-volatile and retained when changing batteries. Dial illumination button; Sleep button; Lock switch; 9/10 kHz MW step switch; 2.125" speaker; RF attenuator; Tone switch; Stereo earphone jack; Flip-stand. Uses three "AA" batteries or 4.5 VDC. Includes: cloth carry case, wrist strap and Shortwave Guide.
Dim: 6.7"w x 4.5"h x 1.4"d; 16 oz..... **$89.99**

**ICF-SW40** Digital/Analog Portable – The accuracy of Digital readout with the intuitive operation of Analog and PLL synthesized. Covers LW, MW (AM), FM bands and SW from 3850 kHz to 26.1 MHz. Normal/Fine tuning (10 kHz/9 kHz) step for AM, 5 kHz step for shortwave and 0.1 MHz for FM. Fine mode tuning steps: 1 kHz (AM/SW) and 0.05 MHz (FM). Backlit LCD display; LED tune indicator; 20 station memory presets; Two position tone control; DX/Local switch; Built-in clock with sleep function and dual standby; Dial lock. Includes cloth case. Requires 3 AA cells or 4.5 VDC. Dim: 6.75"w x 4.25"h x 1.6"d; 15 oz ..... CLOSEOUT **$99.99**

**ICF-SW7600GR** General Coverage Portable Dual conversion superhet, microprocessor controlled and PLL synthesized. Covers 150 kHz to 29.999 MHz and 76-108 MHz FM with stereo at headphone jack. Tuning via: 10-key direct access keypad, manual, automatic scan and scanning of 100 memories. SSB/CW reception and AM synchronous detection. Multi-function LCD digital readout; 1/5 kHz step tuning; 9/10 kHz MW step; Dial light and LED "tune" indicator; 24-hour digital dual time clock with sleep timer; Record jack; Tone switch; 3 in. speaker; Keypad lock; External antenna jack; Uses four "AA" cells or 6 VDC. Includes: wind-up antenna, wrist strap, carry case and SW Guide.
Dim: 7.6"w x 4.75"h x 1.3"d; 22 oz..... **$159.99**



**AN-LP1**
Active Antenna – A flexible 19 in. folding loop receiving antenna with a tunable active controller. A clip and suction cup at the end of the loop allows for convenient placement on windows, etc. Uses two "AA" batteries for about 40 hours of operation ..... **$89.99**

AOR

**LA380**
Wide band Active Loop Antenna

A wide range, 10 kHz to 500 MHz single loop active receiving antenna with five selectable presets and ranges and only 1 ft. in diameter. Incorporates a built-in high-gain amplifier (20 dB for 10 kHz to 250 MHz and variable tuning from 3 to 40 MHz and fixed tuning from 60 kHz to 3 MHz and 40 to 50 MHz. A BNC output jack with a 3.3 ft. BNC to BNC patch cable is provided. Operates from 12 VDC or with the supplied AC wall adapter..... **$379.99**

ANTENNA SUPERMARKET

**SHORTWAVE ANTENNAS**

**EAVES TWIN** The Eavesdropper Shortwave Broadcast Receiving Antenna – A 42 ft. long center-fed dipole with 8 automatic bandswitching trap circuits which electrically separate the antenna segments – just tune your receiver to the desired band. The Eavesdropper covers the 11, 13, 16, 19, 21, 25, 31, 41, 49, 60, 75 and 90 meter bands. Includes The *Zap-Trapper®* gas-tube lightning arrestor for receiver protection and 50 ft. of 450-pound test support rope. Completely assembled, ready to use. Comes with 100 ft. of 72 ohm twin lead transmission line..... **$89.99**

**EAVES SO239** – Same as the Eavesdropper, but with a weather-proofed SO-239 coaxial connector (coaxial cable not included)..... **$89.99**

## Low Cost Shortwave Fun!

**8100W** Regenerative Receiver – Listen to international shortwave broadcasts and hams on SSB/CW etc. Coverage: All or part of 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15, 13 meters in five bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandswitch; Volume/RF gain controls; Aluminum cabinet. Uses 9-Volt battery. Requires earphones or plug-in speakers.
Dim: 7"w x 2.5"h x 6"d; 1 lb ..... wired **$89.99**
**8100K** Same, but in kit form ..... **$69.99**

MIDLAND

**High Performance Mobile speaker**

- Clear crisp sound
- Large 15 watt capacity
- 8-ohm
- Swivel base
- 5.5"w x 5.5"h
- Cord with 3.5mm plug

**21-406** **$22.99**

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**ATS-404** **PLL Synthesized World Band Receiver** Coverage includes AM (520-1710 kHz), 14 SW bands, or continuous 2.3 to 26.1 MHz tuning. Tune via Up-Down buttons; Automatic scan tuning; Keypad entry or the 45 Memory presets. Backlit LCD shows frequency or 12/24 hour clock-timer with alarm and snooze. Other: FM stereo with earphones, MW 9/10 kHz, low-battery indicator, lock; dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC jack. Includes carrying case and stereo earbuds. Uses (4) "AA" batteries. Dim: 6.5"w x 4"h x 1.5"d; 10 oz..... **$79.99**

**ATS-505** **PLL Digital World Radio** – Coverage: LW (153–279 kHz), AM (520–1710 kHz), SW (1711 kHz – 29.999 MHz) & FM (87.5–108 MHz). Tune via Manual tuning knob; Up-Down buttons; Automatic scan tuning; Keypad entry or from the 45 memories. SSB reception with fine tuning. Other features: Stereo via earphones, Auto Preset System, MW 9k/10k switch, lock, tone control, Local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, the ANT-60 wind-up antenna, carry case & earphones. Uses (4) "AA" batteries.
Dim: 8.5"w x 5.3"h x 1.6"d; 24 oz..... **$129.99**

ATS-606A ATS-909

**ATS-606A** **PLL World Band Receiver** – Coverage: 153 kHz to 30 MHz, AM/FM with Manual or Keypad tuning. Backlit LCD; 54 memories; Scanning; Fine tuning; Dual digital clock-timer-alarm; FM stereo with earphones. Uses (3) "AA" batteries. Includes ANT-60 wind-up antenna, AC adapter and earbuds. Dim: 5.75"w x 3.5"h x 1.25"d; 1 lb..... **$139.99**

**ATS-909** **PLL World Band Receiver** – Coverage: LW (153–519 kHz), MW (520–1710 kHz), SW (1711 kHz – 29.999 MHz) & FM (87.5–108 MHz). Tune via: Manual knob; Direct keypad entry; Auto scan. Manual up-down tuning or Memory recall. Wide/Narrow bandwidth switch and SSB /CW reception with fine tuning. Store 307 presets in Alphanumeric memories; RDS display of Station Name & Time. Other: MW 9k/10k switch; 12/24 hour time, (3) timers and sleep timer; Displays 42 city times; Recorder output. Uses (4) "AA" batteries. Includes AC adapter, ANT-60 wind-up antenna, stereo earbuds and carrying case.
Dim: 8.5"w x 5.375"h x 1.375"d; 1.9 lbs . **$249.99**

# SANGEAN™

**German designed and radio engineered by Sangean.**

**PT-50** **ProTravel World Receiver** – This handsome ultra compact radio is for the globetrotting traveler. It features AM, FM, plus seven shortwave bands and FM Stereo reception with earphones. Two LCD window displays with built-in 12/24 hour clock that will wake you to radio or buzzer. Handy selector disc provides time in 24 world cities and your hometown local time. Soft-leather protective case is included. Uses (2) "AA" batteries.
Dim: 5"w x 3.4"h x 1.29"d; 9.5 oz ..... **$79.99**

**PT-80** **ProTravel** – This great looking travel radio has all the features a traveler will ever need. AM, FM, Longwave, and continuous shortwave coverage from 1711 to 29,999 kHz with SSB capability. Five tuning methods: Direct frequency access, Auto scan, Manual tuning, Memory recall from 45 presets, and Rotary tuning. Built-in 12/24 dual world time clock with alarm, snooze, and sleep timer. Snap-on leather case, AC adapter, earphone, and SW antenna included. Uses (4) "AA" batteries.
Dim: 7"w x 4"h x 1.0"d; 1 lb. 2 oz..... **$159.99**

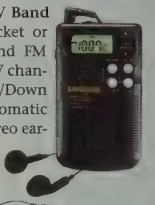
**RCR-2** **Digital Atomic Clock Radio** – A combination of Atomic Clock function and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Boulder, Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5"w x 3"h x 5.25"d; 2 lbs **$69.99**

**WR-1** **High Fidelity Radio** – This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed HI-FI circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality, at a comparable price. The walnut and black cabinet will accent any room. Headphone, record out & 12VDC input jacks.
Dim: 9.4"w x 4.4"h x 6.6"d; 5.18 lb..... **$119.99**

**PRD-2**
**FM-Stereo/AM/TV Digital tuning Portable Receiver**

A retro-1960's classic design with modern technology that come together in this stylish decorative portable/table-top radio. Attractive gold faceplate with simulated walnut exterior. Four tuning methods: Scan tuning, Rotary tuning, Manual tuning and 10 Memory preset tuning – also tunes TV channel audio. Clock feature with alarm. Rotary tuning knob, direct access buttons, and tone control. Full range 5 in. speaker, 1.5 in. tweeter and earphone jack. Beautifully crafted case with lighted display, illuminated presets. AC/DC, operates on 110VAC or (4) "D" batteries. Dim: 7.2"w x 5.1"h x 7.5"d; 4 lbs ..... **$99.99**

**DT-200V** **Broadcast and TV Band Receiver** – Fits in shirt pocket or clips to belt. Covers AM and FM broadcast, plus audio from TV channels 2–13. LCD display, Up/Down tuning; 19 memories, Automatic shut-off; Built-in speaker; Stereo earphones. Uses (2) AA batteries. Dim: 4.375"h x 2.625"w x .75"d; 5 oz..... **$69.99**



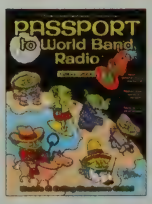
**ANT-60** – Portable, wind-up, shortwave antenna for use with most shortwave radios..... **$13.99**

## SUPERADIO III™

**High Performance, Long Range AM/FM Portable Radio**

Loaded with features: Tuned AM/FM RF stages; Ceramic IF filter, 3 IF tuned circuits on FM; 4 IF tuned circuits on AM; Selectable normal or wide AM; Switchable AFC; Precision vernier tuning; 6.5 in. woofer, 2 in. tweeter; Separate bass and treble controls; Volume plus loudness circuitry to boost bass response at low volumes; FM swivel whip antenna and AM ferrite rod antenna + AM/FM external antenna terminals; Headphone jack; Fold down carry handle; Operates on AC power or six D-cell batteries. Dim: 12.75"w x 9"h x 3.25"d; 5 lbs..... GEX 72887 **$54.99**

## 2006 PASSPORT to World Band Radio




Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular worldband radios, many antennas, and expanded station address lists. 592 pages.
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*So that you can receive the ultimate listening pleasure that connects you to international broadcasts direct from the source!*

*Technologically Superior*
*Easy to Operate*

## E1XM

AM/FM/Shortwave/XM Satellite Ready Radio

- High-performance receiver for international and local radio listening
- User-defined station memory presets with customizable organization
- LCD screen displays frequency, battery life, signal strength and clock/alarm functions
- Direct frequency entry for all bands
- Shortwave range of 1711 – 29,999 Khz
- 1700 station presets with memory scan function

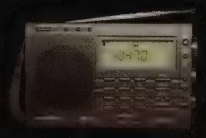
Dimensions: 13"W x 7-1/2"H x 2-1/2"D / Weight: 4 lb 3 oz. / Power Source: 4 "D" Batteries (not included), AC Adapter (included)

## S350 DELUXE

AM/FM Shortwave radio

- Highly sensitive analog tuner with digital display
- Large, full range speaker with bass & treble control
- Clock, alarm, and sleep timer
- Built-in antennas and connections for external antennas
- Comes in 2 unique colors, black and silver

Dimensions: 12-1/2"W x 7"H x 3-1/2"D / Weight: 3 lb. 4 oz. Power Source: 4 D or AA Batteries (not included) or AC Adapter (included)



## E100

AM/FM Shortwave radio

- Shortwave range of 1711 – 29,999 Khz
- 200 programmable memories
- Memory page customization
- Manual & auto scan
- Direct keypad frequency entry
- Clock with alarm, sleep timer & snooze functions

Dimensions: 5"W x 3"H x 1-1/4"D / Weight: 7 oz. Power Source: 2 AA Batteries (not included) or AC Adapter (not included)

## E5

Digital world-band radio

- AM/FM-stereo and full Shortwave coverage
- Single Side Band (SSB) and Wide-Narrow Bandwidth Switch
- PLL Dual Conversion
- Synthesized Tuning System
- 700 Memory Programmable Presets
- Full-featured world time zone Clock

Dimensions: 6"W x 4"H x 1"D / Weight: 12.2 oz. Power Source: 2 AA Batteries (not included) or AC Adapter (not included)

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# GRUNDIG

**G-2000A Porsche Design Shortwave Radio** Designed for Grundig by F.A. Porsche. This radio has a titanium finish look with a genuine leather case that closes around the radio like a book and serves as a stand. Coverage: AM (530–1710 kHz), FM (87.5–108 MHz), SW (2.3–7.4 and 9.4–26.1 MHz). FM-stereo to the earphone jack. Tunes via up/down buttons, autosearch, direct keypad entry or 20 memory presets. Illuminated multifunction LCD display; 12/24 hour clock with alarm and sleep timer; Lock button; Stereo/Mono switch; Earphone output and 4.5 VDC input jacks. Includes real leather case, stereo earbuds and shortwave guide. Uses three "AA" batteries.
Dim: 5.5"W x 3.5"h x 1.25"d; 11.5 oz..... **$79.99**

**S-350DL Deluxe** – A single conversion analog receiver with digital frequency display. Covers continuous SW from 2.9-27.4 MHz and 13 SW bands (11, 13, 16, 19, 22, 25, 31, 41, 49, 60, 75, 90 and 120 meters). Great sounding 4" speaker. Wide/Narrow switch; Sleep timer; Telescopic SW/FM antenna and AM ferrite bar antenna; Inputs for FM and AM/SW wire antennas; Stereo line outputs and a stereo/mono switch; Stereo earphone jack for private listening; Carrying handle. Requires (4) D cells, includes an AC adapter. Dim: 10.5"w x 6.5"h x 3.5"d, 3 lbs.. **$99.99**

**YACHTBOY 550**
**High Performance Receiver**
Coverage: AM/FM and shortwave (1.711–29.999 MHz). FM-stereo reception via the earphone jack. Tuning via direct keypad entry, up-down buttons, scroll wheel, autoscan or 200 memory presets. Illuminated multi-function LCD; Digital clock with alarm and snooze; Signal strength and battery indicators; Telescopic and internal bar antennas and external antenna jack. Includes earbuds, stand, carrying case, three "AA" batteries and shortwave guide. Dim: 4.5"w x 6.5"h x 1.5"d; 10 oz ..... **$79.99**

**2006 PASSPORT to World Band Radio**
An important guide for the Shortwave listener. All you need to know to tune in the World by country, hour, and frequency. informative radio and antenna reviews and station address lists. 592 pages..... IBS 2006 **$22.95**

**E-5 World Class Portable Radio** – Coverage: AM/FM (stereo via earphone jack) and SW (1711-29.999 MHz). Tunes via auto-scan, manual scan, conventional knob or direct keypad entry. Dual conversion, includes SSB reception and 700 memories with memory scan and auto tuning storage. LCD display with three illumination modes 24 hour clock with alarm and sleep timer; Local/DX Switch; Wide-Narrow selectivity; external SW antenna jack. Powers by (4) alkaline or Ni-MH batteries (not supplied) or with the supplied AC wall adapter which will also recharge the Ni-MHs while in the radio. Includes: owner's manual, wrist strap, protective case, wire antenna and ear buds.
Dim: 6.68"w x 4.13"h x 1.13"d; 12.2 oz... **$149.99**

**E-10 Portable Digital Radio** – Coverage: AM/FM (stereo at earphone jack) and SW (1711 kHz to 29.999 MHz). Tunes via: manual tuning; direct keypad entry, scanning or keypad. Store up to 550 stations or use the ATS (Auto tuning system) for automatic memory storage of AM/FM stations. New "IF Set" feature shifts the radio's IF to minimize interference during SW reception. Built-in 24-hour digital clock with two turn-on timers and sleep function. Operation may be programmed to personal preferences and geographic location. Backlit LCD; AM 9/10 kHz and SW 1/5 kHz steps; Wide/narrow bandwidth; Fast/slow manual tuning; Hi/low tone control; External antenna jack; Flip stand; Antenna trimmer optimizes antenna. Uses (4) supplied rechargeable Ni-MH "AA" batteries (can be charged inside the radio. Includes, wrist strap, protective case, wind-up antenna, AC adapter and stereo ear buds. Dim: 7.5"w x 4.5"h x 1.25"d; 1.3 Lbs **$129.99**

**E-100 Compact Portable Digital Radio** Coverage: AM (530 to 1710 kHz), FM (87 to 108 MHz) and Shortwave (1.7 to 30 MHz). FM-stereo at earphone jack. Tunes via keypad entry. Store up to 200 of your favorite stations. Operation may be programmed to personal preferences and geographic location. Built-in digital clock with two turn-on timers and sleep function. Stereo/Mono switch; Tuning bargraph; Backlit LCD; Earphone jack; 3.0 VDC input jack; Flip stand. Includes wrist strap, protective case, two "AA" batteries and stereo earbuds. Dim: 4.75"w x 3"h x 1.1"d..... **$99.99**

**S-350 Field Radio**

Coverage: AM and FM broadcast plus 2.3 to 27.4 MHz (all 13 international shortwave bands. Features sensitive analog tuner with digital frequency readout. Fine tuning and RF gain controls; Separate bass and treble controls; Digital clock with alarm and sleep timer; Built-in antenna; Earphone and external antenna jacks; Left/right line level outputs; Comfortable carry handle. Uses (4) D-cell batteries or included AC adapter. Dim: 10.5"w x 6.5"h x 3.5"d. C/O **$79.99**

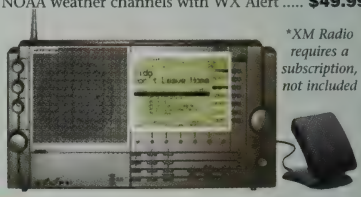
FR-200

FR-250

**FR-200 Emergency Radio** – An analog portable that receives AM (530-1710 kHz), FM (88-108 MHz) and two shortwave bands. Features smooth, precise analog tuning with a concentric fine tune knob. Operates from a built-in wind-up generator charging the supplied NiMH cells, 4.5 VDC or (3) AA cells. Cranking the generator for 90 seconds will give one-hour of operation. Built in 2.5 inch speaker, mini-earphone jack, emergency light and padded carry handle. Includes a canvas carry case with shoulder strap. Dim: 6.75"w x 5.75"h x 2.12"d; 10 oz ..... **$39.99**

**FR-250 Emergency Radio** – Receives AM (530-1710 kHz), FM (88-108 MHz) and seven shortwave bands. Powers from a built-in hand-crank power generator with rechargeable Ni-MH battery pack, (3) AA batteries (not included) or AC adapter (not included). Built-in triple LED flashlight, and emergency siren and cell phone charger. Main tuning knob with a fine-tuning control for precise tuning. Built-in 2.5 inch speaker and rear panel 3.5 mm earphone jack. Built-in antennas: telescopic for FM/SW, AM ferrite bar..... **$49.99**

**FR-300 Emergency Radio** – Looks, features and functions same as the FR-250. Does not cover SW bands but includes TV-VHF audio channels 2 to 13 and 7 NOAA weather channels with WX Alert ..... **$49.99**



**XM Radio requires a subscription, not included*

**E-1 AM/FM/SW and XM Satellite Radio** – Offering over a 100 channels of music, news, talk, and sports programming. Covers 100 kHz–30 MHz LW, MW, SW & FM (88-108 MHz) in AM, FM, SB/CW modes, plus **XM Satellite Radio***. Dual conversion superhet with digitally synthesized PLL tuner with synchronous detector. Tunes via: variable rate tuning knob, direct keypad entry, up/down buttons or auto-tuning. Memories: 500 user programmable alphanumeric plus 1200 user definable; Memory Scan; illuminated, 5.5 inch dot-matrix display; LCD s-meter; I.F. passband tuning; Dual programmable clock (WWV auto-setting); Programmable on/off timers; Stereo at headphone jack. Uses (4) "D" batteries or included AC adapter. Dim: 13.1"w x 7"h x 2.5"d; 4.2 lbs... **$499.99**

## AUDIOVOX XM TUNER/ANTENNA

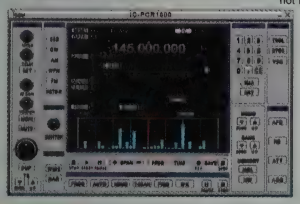
**CNP-1000** XM "Connect-and-Play" – A fully integrated XM Tuner and Antenna combination, the only component needed to provide the full XM experience through any *XM Ready* home or portable audio system. Simply plug in and activate the service to receive XM's 150-plus digital radio channels. No additional accessories or installation are required. 25 ft. cable included. Dim: 1.15"h x 3.03"w x 3.60"d; 10 oz..... **$49.99**


AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

ICOM

**R-75** **HF + 50 MHz All Mode Communication Receiver** – Covers 0.03 to 60 MHz in USB, LSB, CW, RTTY, AM, S-AM and FM modes with 101 memory channels. Conventional tuning plus direct input via keypad. High stability and superior dynamic range. Alphanumeric readout with digital bar S-meter; Digital signal processing (DSP); Two-level preamp; Noise blanker; Synchronous AM detection; Twin passband tuning; Front speaker; Record output and tape recorder activation jack; High and low impedance antenna inputs; Filter options. Operates from 13.8V DC or with supplied AC adapter. Dim 9.5"w x 3.75"h x 9"d; 6.6 lbs ..... **$599.99**

## Wideband Radio on your PC!



**PCR-1500-25** **Computer Controlled Wideband Receiver/Scanner** – Simple connection to your PC via a USB cable. Wide frequency coverage from 0.01-3300 MHz (less cellular). Modes of reception include AM, FM-Wide, FM-Narrow, SSB and CW. (CW and SSB up to 1300 MHz only). Up to 25 channel activities can be observed on the multi-channel monitor screen at a glance. Received audio can be stored on the PC with WAV format. Choose from three different screens: "Communications Receiver" (shown), "Component-style" and "Compact". Includes CTCSS/DCS, pocket beep, IF shift, auto memory write, AFC, AGC, weather alert, 24 digit DTMF tone decoder and up to 2700 memory channels per file. An optional plug-in DSP unit provides Noise Reduction and Audio Notch Filter. Includes AC adapter, whip antenna, USB cable and software CD. Dim: 5.75"w x 1.6"d x 8.1"d; 2.6 lbs... **$579.99**

**R-1500-05** Same as PCR-1500-25, but with Remote Control Head ..... **$699.99**

ICOM

**AH-7000**
**Wideband Antenna**
Discone design provides wide 25 to 1300 MHz coverage. Stainless steel, 5.5 ft. high and attaches to a standard mast (not supplied) with two supplied U-bolts. Comes with a preassembled 50 ft. cable with N connectors ..... **$169.99**

AOR

**AR-8200 MK III-B**
**Compact Wideband Receiver**
Covers 0.5–3000 MHz (cellular blocked) in FM-W, FM-N, super narrow FM, AM-W, AM-N, SSB & CW modes and 1000 alphanumeric memories in 20 banks of 50 channels. Scans and searches at 37 steps per second. High stability TXCO; Dual VFOs and twin frequency readout; Alphanumeric display; Band scope; Bar signal meter; CTCSS decode; 20 second Record/Playback and voice inverter; Noise limiter; Attenuator; Computer control and programming capability. Includes: four NiMH 1500 mAh "AA" rechargeable cells (also operates on external 12VDC), AC charger, belt-clip, auto cigarette lighter power cord, removable AM and telescopic whip antennas. Dim: 2.4"w x 5.7"h x 1.0"d; 0.75 lbs..... **$569.99**

**AR-5000A+3B**
**Wideband Receiver**

The choice for professionals, top-end hobbyists, government departments and armed forces for its amazing sensitivity and strong signal handing capability. Covers 10 kHz to 2.6 GHz (less cellular) in AM, FM-N, FM-W, LSB, USB and CW modes with 2000 multi-function memories in 20 banks of 100 memories. Six bandwidths of 3, 6, 15, 30, 110 and 220 kHz. Sophisticated multiple scanning functions. Noise Blanker, AFC and AM Synchronous Detection. Operates on 12-16VDC @ 1A. Dim: 8.5"w x 4"h x 10.2"l, 7.8 lbs ..... Special Order **$2599.99**

**AR-8600 MK II-B**
**Wideband Receiver**

Extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section back-lit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Versatile band scope with save trace facility; Alphanumeric text comments; Write protect/keypad lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS-232 port for computer control; 12 VDC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and detailed instruction manual. Dim: 5.9"w x 2.2"h x 6.9"d; 4.9 lbs..... **$899.99**

**SDU-5600**
**Spectrum Display Unit**

Operates with the AR-8600MKIIB and others with a 10.7 MHz I.F. Provides selection of center frequency, receive mode, etc. The high resolution, 5 in. color TFT display provides clear, crisp graphics. Built-in "waterfall" display function, FFT signal processing and analysis and DSP. Remote control via PC. Dim: 8.7"w x 4.7"h x 7.7"d; 5.1 lbs ..... **$1299.99**

YAESU

**VR-5000**
**Multi-mode Scanning Receiver**
Covers 100 kHz–2.6 GHz (cellular blocked) in AM, FM-N, FM-W, LSB, USB and CW modes with VFO or direct keypad frequency entry and 2000 memories (10 banks) with alphanumerics. Dual receive; Versatile scanning system with automatic memory loading; Bandscope; World clock with time zone map. Dim: 7.1"w x 2.8"h x 8"d; 4.2 lbs .... **$599.99**

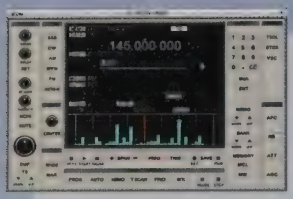
**FRG-100B**
**High Performance Receiver**

A high quality receiver covering 50 kHz–30 MHz in CW, SSB, AM (FM optional) modes with 50 tunable memories that store frequency, mode and filter information. Two addition memories for scanning band-edge information. Sixteen pre-programmed international bands. Multi-function scanning; SSB carrier offset; Selectable AGC; Noise blanker; All mode squelch; 12/24 hour clocks with timers; CAT system for PC control; Bright backlit LCD display; 120/240 VAC or 12-14 VDC. Dim: 9.4"w x 3.5"h x 9.5"d; 6.6 lbs C/O **$529.99**

VR-500 VR-120D

**VR-500** **Mini-Receiver** – Covers 100 kHz to 1300 MHz (cellular blocked) in CW, SSB, AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW to 16 MHz, VHF and UHF TV bands, VHF AM aircraft band, plus commercial and public safety frequencies. Keypad entry; 1000 memory channels, 100 "skip" and 10 search memories, 100 dual watch memories; Priority. Uses two "AA" batteries. Dim: 4.2"h x 2.2"w x 1"d; 7 oz..... **$319.99**

**VR-120D** **Mini-Receiver** – Covers 100 kHz to 1300 MHz (cellular blocked) in AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW, VHF/UHF TV, VHF AM aircraft plus commercial and public safety. 640 memories; Scanning; 4-button operation; AC or DC power with optional adapter cable. Dim: 3.3"h x 2.3"w x 1"d; 6.9 oz..... **$199.99**



The "communications receiver" screen shows unified operating information such as S-meter level, frequency readout and keypad, etc. on a single screen. It is similar to what you see on the front panel of a typical communications receiver.

The "compact" screen shows the minimum preset buttons for stations and frequency readout for simplified operation. Not all radio functions are available with this screen.

## 3 SELECTABLE INTERFACE SCREENS

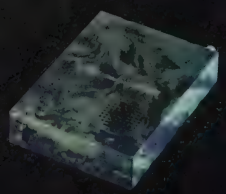
Depending on your needs or level of expertise, three operating screens are available to select from: a "communications receiver" screen, a "component-style" screen and a "compact" screen.

The "component-style" screen: Functions are divided into 4 sections – "Tuning", "Mode/Volume", "Meter/scan" and "scope panel". This screen is great for users who are already familiar with a full-function communications receiver.

## DSP CAPABLE

By installing the optional UT-106 DSP unit, you've added noise reduction to improve the S/N ratio, an automatic notch filter to automatically cut beat interference, and even more DSP functions pull out the weak signals and provide superior receive quality!

# WHO SAYS THE WORLD IS ROUND?



## NEW R1500: THE WORLD TO GO!

No PC required! Nearly identical to the PCR1500, the R1500 comes with a remote control head. The remote head offers limited control over most features for mobile use, but for full usability choose to operate the R1500 via a PC!

Please note that the remote head is not an option for the PCR1500. There is a jack for the remote head on the rear of the R1500's black box, and key internal differences.

# NEW PCR1500

# Podcasting, anyone?

Icom's new PC-controlled black box receiver has wide spectrum coverage, USB connectivity, and .wav file recordability. Save your favorite radio programs for personal Podcasts! Now at AES.

### PC CONTROL WIDEBAND RECEIVER

Control of all functions is only a mouse click away! 0.01–3299.999MHz* in all modes . 1Hz fine tuning resolution is available in all bands. (*cellular blocked. 0.495–1300MHz only in SSB and CW modes)

### USB CABLE CONNECTION

USB cable provides higher data transmission speed than a RS-232C cable and improves operation "response and feeling". Record and store .wav files on your PC via the USB, too.

## NEW SOFTWARE FUNCTIONS

### SCAN UP TO 60 CHANNELS PER SECOND*

Auto memory write scan searches for a signal, and when detected, the received frequency is automatically stored into an auto memory write channel bank.

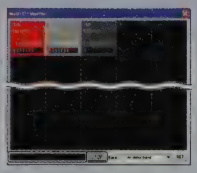
*Depending on PC's capability. Tuning step is 100kHz or less in program scan mode.

### UNLIMITED NUMBER OF MEMORY CHANNELS

Memory channels are stored in the connected PC's hard disk or other storage devices. Therefore the number of memories is only limited by your available memory space.

### MULTI CHANNEL MONITOR

Catch the status of up to 25 channels - at a glance! Channel activity is indicated by S-meter level and one of three colors: Red = heavy activity, light gray = moderate, and dark gray = try back later, or use optional DSP to pull out that weak signal. Click on the color and start listening to that channel!



### VSC, CTCSS, DTCS TONE AND S-METER SQUELCH FIGHT UNWANTED NOISE

The VSC (voice squelch control) opens the squelch only when a modulated signal is detected. The VSC ignores unmodulated, beat noise signals. The CTCSS and DTCS tones provide quiet stand-by while waiting for a matched tone signal. In addition to a regular noise squelch system, the S-meter squelch releases the AF mute, when only signals stronger than the preset S-meter level are received.

### AND EVEN MORE...

**PLAY AUDIO THRU YOUR COMPUTER SOUND CARD**

**IMPORT /EXPORT MEMORY CHANNELS AS .CSV FILES**

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*News as it happens! Tune in Police, Fire, Public Service, Ham Radio, Military, Weather, Racing and more! A selection of Handhelds, Base/Mobiles to fit your needs.*

## uniden Bearcat Compact Handheld Scanners

**BC-72XLT Compact Handheld Scanner** (Great for NASCAR) – 100 Channels/10 Banks; Covers the most interesting "action" bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather, and more! Covers 25-54, 108-174, 406-512 MHz; 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display for low light Conditions; Priority Scan to scan the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; 2 AA battery operation: Alkaline or rechargeable (charges while in the scanner); Dim: 2.75"w 4.5"h x 1.75"d; 6 oz ..... **$99.99**

**BC-92XLT Handheld Scanner with 800MHz Coverage** – 200 Channels/10 Banks; Covers the "action" bands 25-54, 108-174, 406-512, 806-956 (excluding Cellular); 10 Programmable Search Ranges; 6 Preprogrammed Service Searches; Close Call™ RF Capture Technology; Priority Scan; Delay; Backlit Display. Dim: 2.75"w x 4.5"h x 1.75"d; 6 oz ..... **$119.99**

**BC-246T Handheld Scanner** – 1600 Channels typical/2500 maximum; TrunkTracker III Technology (Motorola, EDACS and LTR systems); Covers 25-54, 108-174, 216-225, 400-512, 806-956 & 1240-1300 MHz (excluding Cellular); Dynamically Allocated Channel Memory makes It easier to program and use without wasting channels; Close Call™ RF Capture Technology; Alpha Tagging for Systems, Channel Groups, Channels, Search Ranges, and SAME Groups; S.A.M.E. Weather Alert (Specific Area Message Encoding) – during a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; 10 Custom Search Ranges; Preprogrammed Service Searches; Automatic Repeater Reverse automatically tunes to the Repeater Output Frequency when It finds a transmission on a common Input frequency; DCS/CTCSS; Rapid Decode instantly detects and displays the Subaudible Tone; Pager Skip eliminates transmissions on common pager Frequencies during Search and Close Call Operation; Channel Alert indicates when specified channels become active; Backlit Display adjustable to turn on when Squelch opens, or any key is pressed (or Manually); PC Control: includes a PC Cable to transfer information from your computer to scanner. Dim: 2.5"w x 4.5"h x 1.75"d; 6 oz ..... **$229.99**

**BR-330T Racing Sport Handheld Scanner with Race Track Operation** – Coverage: 1 MHz to 1.3 GHz (excluding Cellular); 2500 Dynamically Allocated Channels; Preprogrammed Coverage of Over 400 Cities; TrunkTracker III (EDACS, MOTOROLA, E.F. JOHNSON); Race Track Operation for easy programming and selection of the race and drivers you want to listen to; Close Call™ RF Capture Technology; Search with Scan; DCS(104)/CTCSS(50) Rapid Decoding; Fire Tone-Out; Extended Quick-Key Operation; Alpha Tagging; Built-In Bar Antenna For AM broadcast. Dim: 2.4"w x 5.35"h x 1.22"d; 0.6 lbs..... **$279.99**

**BCD-396T Compact Scanner** – Continuous Band Coverage 25 MHz to 1.3 GHz (excluding UHF TV and Cellular); 6000 Dynamically Allocated channels; 400 cities preprogrammed; TrunkTracker IV (Motorola APCO 25 Digital, Motorola, EDACS, LTR); Close Call™ RF Capture Technology; S.A.M.E. Weather Alert; Fire Tone-Out; Alpha Tagging; 100 Quick Key System; Audio AGC; Automatic Digital Threshold; Search with Scan; DCS/CTCSS Rapid Decode; PC Control (Software Included). Dim: 2.4"w x 5.35"h x 1.22"d; 0.6 lbs ..... **$549.99**

**SC-230 Racing Sport Handheld Scanner with Race Track Operation** – Covers: 25-54, 108-174, 216-225, 400-512, 806-956, 1240-1300 MHz (excluding Cellular); 1600 Channels/2500 maximum; Dynamically Allocated Channel Memory; Race Track Operation; Close Call™ RF Capture Technology; Alpha Tagging; Quick Key System Access; S.A.M.E. Weather Alert; 10 Programmable Search Ranges; 11 Preprogrammed Service Searches; Priority Scan; Attenuator cuts down on interference from strong, nearby signal sources; Delay; Backlight on Squelch; 2 AA battery operation, Alkaline or rechargeable (batteries can be charged while in the scanner); PC Interface provides both programming and remote control of scanner features from a PC (software included); On-Air Programming (separate transmitter required) makes programming multiple units a snap – just transmit the driver information using a PC and transceiver, and all scanners update at once; Dim: 2.9"w x 4.6"h x 1.4"d; 7.8 oz ..... **$199.99**

## uniden Base/Mobile Scanners

BC-340CRS BC-244CLT BC-248CLT / BC-278CLT

**BC-244CLT 30 Channel Programmable Scanner** Covers: 25-54, 137-174 & 406-512 MHz in 10 bands; Full frequency LCD Display; Manual channel access; One-touch weather scans seven WX frequencies; LCD Clock/Alarm and Snooze; Priority channel; Lockout; Delay; Memory back-up. Dim: 8"w x 5.5"d x 3"h; 22 oz .... Closeout **$99.99**

**BC-248CLT 50 Channel Programmable Scanner** Same features as BC-244CLT except: 50 channels, 10 bands and 5 banks; Built-in AM/FM radio with 20 Presets; Weather alert; Programmable delay; Auto squelch; 5 priority channels..... Closeout **$109.99**

**BC-278CLT 100 Channel Programmable Scanner** – Same as BC-248CLT above, except: includes 800 MHz (excluding cellular) and Aircraft; 100 channels, 5 banks; Programmable search; S.A.M.E WX alert..... Closeout **$129.99**

**BC-340CRS 100 Channel Scanner** – 10 banks. Covers: 25-54, 108-174, 406-512 MHz, AM/FM Broadcast and TV ch. 2 to 13 audio; 10 AM presets, 20 FM presets; Service Search (Police, Fire/EMS, Air, HAM, Marine); 50 Search Lockouts; Priority Scan; Limit Search; Weather Scan; Alarm Clock w/Snooze Backlit LCD; Auto Power-Off..... **$99.99**

**BC-350C 800 MHz Base and Mobile Scanner** Coverage: 25-54, 108-174, 406-512 and 806-956 MHz (excluding cellular). 6 Preprogrammed service banks; 13 preset search bands; 100 user-programmable memories; 100 channels-per-second scanning speed; Search lockouts; luminescent backlit LCD screen. Includes mounting bracket, AC adapter, DC power cable and vehicle power plug. Dim: 5.2"w x 1.6"h x 6.5"d; 1.6 lbs..... **$99.99**

**BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III** – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 priority channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state; 100 channels per second scanning with search lockouts; Priority scan; BearTracker™ Warning System alerts to highway patrol frequency activity within 3 miles; Backlit LCD. Dim: 7"w x 2.5"h x 6"d; 4.9 lbs ..... **$179.99**


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

## uniden

**BC-796D** APCO P-25 Digital Capable Scanner – Continuous coverage 25–512 and 806–1300 MHz (less cellular) with full-frequency display. 1000 channels/10 banks, 10 priority; AM/FM/WFM modes; Weather/S.A.M.E alert; TrunkTracker III (EDACS®, Motorola®, LTR, APCO); CTCSS/DCS decode; Digital operation, 9600b C4FM and CQPSK; Control channel only mode; 12 service searches; Alphanumerics; PC control and programming (CD ROM included); Includes mobile mounting bracket, AC adapter, DC Power Cable and vehicle power plug. Dim: 7"w x 2.4"h x 6.5"d; 3.2 lbs C/O **$549.99**

**BC-898T** 500 Channel Base/Mobile Scanner TrunkTracker III; Coverage: 25-54, 108-174, 216-512 and 806-956 MHz (excluding cellular); 10 banks/50 channels; AutoStore; TrunkTracking™ (Motorola, EDACS & LTR); 1000 talk group ID's (10 lists/10 Banks); DCS/CTCSS; Conventional and trunked search operations; Programmable search and delay; Weather channels with S.A.M.E. alert; Priority scan. Includes AC adapter, DC Power Cable with auto power plug. Dim: 10.5"w x 7.3"d x 3.5"h; 3.8 lbs.. **$209.99**

## AIRCRAFT RADIOS ICOM

**A-23** Airband HT – Easy to operate featuring a large, clear LCD. Record and play back conversations with the built-in recorder. Large capacity rechargeable NiMH battery is standard. Convenient for carrying with supplied belt clip. Water resistant, JIS-4 grade, allows safe operation in rain. 5W (PEP), 1.5W (carrier) output; All 760 "COM" (108-136.975 MHz) and weather channels; VOR navigation (RX only); 200 alphanumeric memories; PC programmable. Dim: 2.3"w x 4.23"h x 1.2"d; 12 oz..... Closeout **$329.99**

## YAESU

**VXA-710** Airband Transceiver Covers COM, NAV, FM broadcast, NOAA weather and 2-meter amateur band. VOR and CDI display with OBS on NAV. Full 5W TX output power; 160 memory channels; Large, bright screen with signal strength indicator. Multi-color strobe LED for status indication and emergency light. Totally waterproof and submersible. Dim: 2.25"w x 3.75"h x 1.25"d and weighs 9.9 oz. Includes Li-ion battery pack, wall charger, antenna, and headset cable..... **$399.99**

## ICOM HANDHELD RECEIVERS

R-3-26 R-5-06 R-20-06

**R-3-26** Communications Receiver – Provides wideband capability from 0.5 to 2450 MHz (cellular blocked). Includes 450 alphanumeric memories. CTCSS. Features a 2 in. TFT color display (or switch to mono color for up to 27-hours of operation). Receive favorite TV shows, scan for wireless cameras like those in race cars. Use as a monitor with a wireless camera. Display to a large monitor or recording device with A/V output. Signal strength and band scope functions assist in finding the action. PC programmable; Li-ion rechargeable battery. Dim: 2.4"w x 4.72"h x 1.28"d; 10.6 oz.... **$344.99**

**R-5-06** Super Wideband Handheld Receiver Covers 495 kHz to 1309.995 MHz (cell blocked), AM, FM, WFM modes. Preprogrammed TV and shortwave memories. Listen to AM/FM broadcast radio, police, fire, military, aircraft, amateur bands, and more. Weather alert. Crisp audio. Large, backlit LCD shows frequency, operating and battery status, signal strength and alphanumeric naming of 1250 memories (200 auto-write scan and 25 scan edge pairs). DMS; CTCSS/DTCS; Internal bar antenna; PC programmable; Cloning; Weather resistant; Rechargeable NiCad and external DC power in jack. Dim: 2.25"w x 3.4"h x 1"d; 6 oz..... **$199.99**

**R-20-06** Wideband Handheld Receiver – Hear AM/FM radio and TV broadcasts, wireless communications for boaters, aviation, conventional public safety and many other commercial services. Covers 0.15 to 3304.99 MHz (cellular blocked). SSB/CW/AM/FM/WFM modes; Preset TV sound and shortwave frequencies; 1250 memories (1000 memories, 25 scan edge, 200 auto-write scan); Multiple scan functions (100 channels/second high speed scan capability and Voice Scan Control); Voice Squelch Control opens squelch only when a modulated signal is detected; Dual watch receive; Built-in IC audio recorder with recording time up to four hours; Auto squelch and squelch monitor function; CTCSS/DTCS/DTMF decode; RF gain control and Attenuator; Noise blanker and Automatic Noise Limiter; AF filter; Bandscope; Auto Frequency Control function; Offset monitor capability for semi-duplex channel monitoring; Back-lit keypad and dot-matrix LCD with programmable channel names (up to 8 characters); Internal bar antenna for MF reception, BNC antenna connector; CI-V PC control capability; Li-ion rechargeable battery provides up to 11 hours continuous receive. Dim: 2.28"w x 5.5"h x 1.22"d..... **$509.99**

## Order Today!

We accept I.M.P.A.C.® Government Credit Cards

## ICOM® MARINE RADIOS

**IC-M302W02** VHF Marine Transceiver – All International, USA, Canadian and WX channels and alert; Instant channel 16; 25W or 1W output; Dual/tri-watch; GPS connection; Large backlit LCD shows channel numbers and names up to 10 characters; Built-in DSC capability (send a formatted distress message); High sound pressure speaker; External speaker connection; Rugged, waterproof (JIS Grade 7); Includes hand microphone, mounting bracket kit and DC power cable. Dim: 6"w x 2.6"h x 5.2"d; 1.8 lbs..... **$159.99**

M-710

M-802

**M-710** Marine SSB Transceiver – Rugged, 150W, 136 channels, 160 programmable memories. PC programmable; Large LCD with alphanumeric readout. General version without 2182 kHz alarm, marine bands only ..... Special Order **$1399.99**

**M-802** Marine SSB Transceiver w/DSP – Large backlit Dot Matrix LCD. Built-in digital selective calling, one-touch e-mail and GPS input. RX: 0.5–29.99 MHz; TX: 6–2.99, 4–4.99, 6–6.99, 8–8.99, 12–13.99, 16–17.99, 18–19.99, 22–22.99, 25–27.5 MHz. Modes: J3E (SSB), J2B (AFSK), F1B (FSK), A1A (CW), M3E (AM, RX only). 1355 channels; 20/60/150W output. Dim: 9.2"w x 3.7"h x 9.1"d; 10.3 lbs. Control: 8.3"w x 4.4"h x 3.1"d; 1.2 lbs ..... Special Order **$1749.99**

**IC-M1V** VHF Marine Handheld

All US, Canadian, international and WX channels with alert. Normal & priority scan; "Tag" scan system; 5 Watts; Dual/tri-watch; PC programmable; Alphanumeric; 1400mAh Li-ion battery. Dim: 2.1"w x 5.5"h x 1.2"d; 9.9 oz..... C/O **$199.99**

**IC-M72** Marine VHF Handheld

More Power, now 6 Watts; Covers All International, USA, Canadian and Weather channels; Auto scan function (starts when no signal received) Auto WX scan and WX Alert function; Instant channel 9 & 16; Simple add/delete TAG scanning; Wide Angle backlit LCD; Battery life indicator and auto power saver; Submersible 4.9 ft for 30 minutes. Large capacity 2000mAH Lithium-Ion Battery gives 15 to 16 hours of operation. Impressive audio. Includes desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 2.06"w x 4.90"h x 1.8"d; 9.9 oz ..... **$199.99**

# uniden

## MARINE RADIOS

**ATLANTIS-250** Handheld 2-Way VHF Marine – All US, international and Canadian marine channels. Durable, reliable for any marine activity. Waterproof (JIS4/CFR46 rating); 5/1W, switchable; Instant channel 16/9; Triple watch; All N.O.A.A. channels with Weather Alert; Backlit LCD and keypad; Memory channel scan; Flexible rubber antenna; NiMH and alkaline capability ..... **$99.99**

**VOYAGER** Ultra Compact VHF Handheld Marine Radio All USA, Canadian and international channels; All N.O.A.A. channels with S.A.M.E. WX alert; Triple Watch Plus™; Channel 16/9; Memory scan; 1/5W transmit; Backlit keypad and LCD; Rubber grips and seal; Flexible antenna. Meets JIS7 waterproof specifications. Comes with rechargeable Li-ion battery; AC/DC adapter and charging cradle. Dim: 3.8"h x 2.4"w x 1.3"d; 8.8 oz... **$159.99**

**MHS-350** Handheld Marine 2-Way VHF Radio – All USA/international and Canadian marine channels All N.O.A.A. weather channels with weather alert; S.A.M.E. (during a NOAA weather or emergency alert, a code will alert you to severe conditions in your immediate area); 1/5W output; Triple Watch Plus™ (monitor channel 16/9, another user selectable channel, plus WX alert); Large backlit LCD; Rubber grips and seal. Meets JIS7 waterproof specifications..... **$149.99**

**MYSTIC** VHF Marine Handheld with GPS/DSC – 5 Watts output; Integrated mapping WAAS GPS allows send, receive and mark directly on a map for accurate vessel or individual positions. Includes CD of all U.S. street data (up to 32MB can be loaded at any given time); Large VGA display for all charting, mapping and radio functions; Fully submersible construction; Supplied with Li-ion battery, AC/DC chargers and charging cradle. Dim: 6.9"h x 2.6"w x 1.4"d..... **$299.99**

## Order Today!

We accept I.M.P.A.C.® Government Credit Cards

**SOLARA-DSC** 25W VHF Marine Radio – Full-featured, now includes DSC. All USA/ international channels; Instant channel 16; 10 weather channels; Selectable 1/25W output; High visibility LED display; Front mounted speaker for improved sound quality; Transmit LED indicator; Weather resistant housing, microphone and connector..... **$119.99**

**OCEANUS-DSC** Full Featured VHF Marine Radio – Ultra-compact, rugged construction saves space, allows for convenient mounting, and withstands the harshest conditions. All USA/international/Canadian marine channels, N.O.A.A. weather with scan and alert. Triple Watch Plus™ – monitor emergency channel 16 and 9, another user selectable channel plus weather alert; Quik Command™ one-touch channel 16/9 key on the durable, rubber grip microphone; Backlit keypad; Memory scan; 1 or 25W transmit; LCD and dimmer; External speaker jack; One switch PA operation..... **$139.99**

**UM-525** 25W Marine VHF Radio with Loud Hailer – All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring and NOAA emergency/weather alert with S.A.M.E. Bright 3 in. (diagonal) backlit LCD display; Built-in 30W loud hailer with intercom, PA and all preprogrammed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with DSC polling capabilities; Speaker microphone with one-touch channel 16/9 key and up/down channel select..... **$199.99**

**UM-625C** 25W VHF Marine Radio with Loud Hailer – All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring; and NOAA weather alert with S.A.M.E. Bright 2.2 in. (diagonal) daylight viewable Color TFT display that is viewable from any angle in sunlight. Rugged construction and highest rated receiver performance (85dB intermod nom.); built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with all DSC polling capabilities; Speaker mic. with one-touch channel 16/9 key and up/down channel select..... **$299.99**

## MIDLAND

**NT-1**
*NAUTICO™1*
**VHF Marine Handheld – $59.99**

**Features:**
- 88 Channels: USA, Canada and International
- 10 NOAA Weather Channels
- 5W power; up to 14 mile range
- Channel 16 Emergency button
- Auto-Squelch
- Scan • Monitor • Dual watch • Call Alert
- LCD Display • Keypad lock
- Battery level indicator • Powered by 4 AA batteries • Includes watertight bag
- Dim: 4.8"h x 2.3"w x 1.5"d; 4 oz.

**AVP-5** Accessory kit – Includes Microphone headset, Rechargeable NiMH battery, AC and DC adapters, mount and holder..... **$29.99**

**FRS RADIO** No license required – perfect communications for Sportsman, Families, Clubs, Hobbies, Boating, Camping, Fishing, Hunting.

**GMRS RADIO** Licensee required – immediate family members are eligible to operate under the license. Others (your employees, friends, associates, etc.) must each obtain a license before they can operate in the GMRS, even if they are just operating one of your own radios.

## MIDLAND

**GXT-500VP4** FRS/GMRS Handhelds – 22 channels (7 FRS/GMRS, 7 FRS and 8 GMRS) and including 10 NOAA WX Channels/All Hazards Information. 5 Watts; 38 privacy codes; 5 Call tones; Backlit Display; VOX; Vibrating Alert; Channel Scan; Stealth (Auto) Squelch; Keypad Lock; Monitor; Mic and Headphone Jacks; Water Resistant; Auto Battery Save; Battery Low Indicator; Roger Beep. Operates on 4 "AA" alkaline or rechargeable batteries (not included). Dim: 4.12"h x 2.37"w x 1.37"d ..... PAIR **$94.99**

**LXT-210VP** GMRS Handhelds 22 channels (7 FRS/GMRS, 7 FRS, 8 GMRS). Channel Scan; Stealth (Auto) Squelch; Silent Operation; Keypad Lock; Call Tone; Mic and Headphone Jacks; Water Resistant; Roger Beep; Channel Scan; Auto Batt. Save. Comes with rechargeable NiMH battery packs and AC plug-in charger.....PAIR **$44.99**

## ICOM

**IC-F21GM** FRS/GMRS Radio – 15 channels, 7 shared FRS channels. Power: 4 Watts with range up to 5 miles depending on operating environment. All channels are pre-programmed allowing out-of-box operation, only a simple license required. Dim: 2.1"w x 5"h x 1.5"d, 10.6 oz..... **$149.99**



AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

# Cobra CB Radios

**19DX IV** **Compact 40 channel Mobile CB Radio** New compact design; Full function LCD display; Instant channel 9/19; RF gain/squelch control; Combination S/RF meter; Channel Indicator; TX indicator; CB/PA switch; Mobile bracket.
Dim: 4.5"w x 1.75"h x 7.25"d; 2.1 lbs..... **$49.99**

**20XTR** **Xtreme Street Communicator 40 Channel CB Radio** – Neon blue front panel illumination and antenna that illuminates on transmit. LED display; 4W (AM) output; CB/PA switch; Front dynamic microphone jack. Includes mag-mount antenna and mobile mounting hardware.
Dim: 6.25"w x 1.75"h x 6.5"d; 2 lbs... C/O **$79.99**

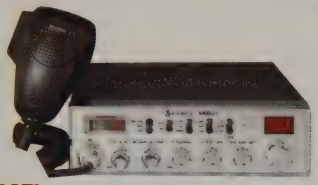
**25LTD** **AM Mobile CB Radio** – 40 channels; 4W RF output; Adjustable Dynamike boost; Instant channel 9; RF gain control; Switchable noise blanker; Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile controls. Dim: 8.6"d x 6.3"w x 2.2"h; 4 lbs **$89.99**

**25WXNWST** **AM Mobile CB Radio** – Same as LTD but with NightWatch™ & Weather..... **$109.99**

**29LTD** **AM Mobile CB Radio** – Same look and basic features as the 25LTD but includes: Delta tune; Switchable ANL/Noise blanker; CB/PA switch; Antenna warning LED indicators; S/RF/SWR meter. Dim: 8.6"d x 6.2"w x 2.2"h; 4 lbs ..... **$99.99**

**29NW** **AM Mobile CB Radio** – Same look and basic features as the 29LTD but: No Delta tune; Includes **NightWatch™** fully illuminated display; Variable dimmer control; Tone control; Instant channel 9/19. Dim: 8.6"d x 6.3"w x 2.2"h; 4 lbs ... **$119.99**

**29WXNW ST** **AM Mobile CB Radio** – Same look and basic features as the 29NW but: has **SoundTracker™** system; 7 NOAA weather channels with Weather Alert tone..... **$129.99**



**148GTL** **40 channel AM/SSB CB Radio** – Full featured, four full Watts (AM) and 12W (SSB) RF power. Dual conversion AM receive; Adjustable Dynamike; Illuminated S/RF/SWR meter; Switchable ANL/NB; PA capability; three-position tone switch; 2-color RX/TX indicator; Digital LED readout; PA. Dim: 2.3"h x 7.8"w x 9.2"d; 5 lbs..... **$149.99**

**HH-ROAD TRIP** **40 Channel CB Handheld** – Keep in vehicle for emergencies, inter-vehicle communications and to receive the latest weather information. **SoundTracker®** system cuts noise up to 90% and 4W of power gives up to 4 miles range. High/low power switch. Operates on 9 "AA" alkaline or NiCads or from vehicle battery with the included DC cord and plug. Includes magnet mount mobile antenna.
Dim: 6.75"h x 2"w x 1.75"d.... **$79.99**

**75WXST** **Compact/Remote CB Radio** – 40 CB channels and 10 Weather channels. A remote box installs out of sight and connects to the microphone with controls and full featured LCD display. Dual watch and full channel scan; Instant channel 9; Four memory channels; Key lock. Dim: 4.2"h x 2.7"h x 1.8"d; 1.85 lbs..... **$99.99**

## RECOMMENDED CB ANTENNAS

**COBRA**

**HGA-1000** – Base loaded magnet mount mobile antenna with coax and connector..... **$19.99**

**HUSTLER**

**HQT** – A 55 in. top loaded whip with Mirror Mount bracket. Comes with 12 ft. cable with PL-259 connector. Chrome with a white coil. **$27.99**

**HQ-27M** – A 55 in. top loaded whip with Trunk-lip Mount. Comes with 15 ft. cable and PL-259 connector. Chrome with a white coil..... **$36.99**

**1C-100** – 44 in. base loaded magnet mount antenna (white color)..... **$19.99**

**1C-11B** – 42 in. base loaded trunk mount antenna (black color) ..... **$13.99**

**LARSEN**

**NMO-27C** – Base loaded mobile, less mt. **$32.99**

**NMO-TLP** – Low-profile trunk mount for the NMO-27C. 17 ft. coax and PL-259..... **$29.99**

**NMO-MMR** – NMO-27C magnet mount. Comes w/12 ft. coax & PL-259 connector..... **$32.99**

**MIDLAND**

**18-258** – Through Window Mount Mobile CB Antenna. Power transfers thru-the-glass to outside element without wires. Overall length: 25-1/4 in. Includes coax cable & SO-239 connector ... **$19.99**

**SOLARCON**

**A-99** – Base Antenna. Three-piece fiberglass design uses a 1/2-wave over a 1/4-wave section. Tunable, 3dB gain. Length: 17 ft. 8 in. 3 dB gain.... **$79.99**

**GPK-1** – Ground plane kit for the Solarcon A-99 antenna. Adds 30% more power gain and produces a lower angle of radiation ..... **$59.99**

**WILSON**

**W-1000** – 5 ft. base loaded mobile antenna. Available in three mount configurations. All come with 18 ft. cable and PL-259 connector.

**ROOF** – thru-hole mount ..... **$57.99**

**TRUNK** – mount..... **$65.99**

**MAGNET** – mount..... **$76.99**

**LITTLE WIL** – 38 in. base loaded magnet mount antenna ..... **$31.99**

# uniden CB Radios

**PC-68XL** **40-Channel CB Radio** – Front microphone jack; Backlit controls; S/RF meter; Channel indicator; Dynamic squelch control; TX/RX indicator; Instant channel 9; RF and microphone gain; PA mode. Dim: 7.6"w x 8.9"d x 2.6"h; 3 lbs ... **$74.99**

**PC-68LTW** – Same basic features as the PC68XL but with NOAA weather and alert..... **$79.99**

**PC-78XL** **40 Channel AM Mobile** – PLL synthesized; Instant channel 9; Dynamic Squelch Control; Microphone and RF gain; Delta tune; Noise blanker; Automatic noise limiter; PA/CB switch; Dimmer control; TX/RX LEDs; Antenna warning LED
Dim: 7.25"w x 8.63"d x 2.38"h; 4 lbs. 3 oz . **$94.99**

**PC-78LTW** – Same basic features as the PC78XL but with NOAA weather and alert ..... **$99.99**

**PC-78 ELITE** **40-Channel CB with Ergonomic Pistol Grip Microphone** – Combines CB and a 7 channel Weather Radio with alert. Enhanced night vision display; Instant Channel 9; S/RF/SWR meter; RF and microphone gain; Delta tune. Switches for: S/RF/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and dynamic squelch control.
Dim: 7.6"w x 8.9"d x 2.6"h; 4 lbs. 3 oz ... **$119.99**

**PC-68 ELITE** **40-Channel CB** – Same looks and features as PC-78 Elite but no Delta tune and SWR.
Dim: 6.2"w x 5.4"d x 2.1"h; 3 lbs. 11 oz ... **$99.99**

**PRO-510XL** **Compact 40 Channel AM Mobile** Incorporates state-of-the-art microelectronics into a sophisticated Euro-styled 2-way CB unit. Front mounted microphone, ANL Switch, S/RF LED meter. Dim: 4.5"w x 1.4"h x 7.5"d; 3 lbs.... **$39.99**

**PRO-520XL** **Compact 40 Channel AM Mobile** Looks like 510XL. Instant channel 9 access; 4-segment S/RF meter; TX LED; LED channel indicator; RF gain; PA switch; Automatic noise limiter.
Dim: 4.5"w x 6.8"d x 1.38"d; 1 lbs. 10 oz .. **$54.99**

**PRO-538W** **40 Channel AM Mobile** – Includes 3 weather channels. RF gain control; PA/CB switch; Instant channel 19; TX/RX indicator; Front speaker.
Dim: 6.8"h x 2"w x 8.3"d; 2.6 lbs..... **$59.99**

# GARMIN® GPS

GPS-12XL GPS-60 GPS-MAP60 GPS-72

**GPS-12XL Personal Navigator for Extreme Outdoor Enthusiasts** – A 12 channel receiver with external antenna for fast, accurate position fixes in tough conditions like tree canopy and urban obstructions. 500 user waypoints with alphanumeric name and user comments and nine alarms; 20 reversible routes of up to 30 waypoints each. TracBack™ navigation shows the route back home. Over 1000 track log points, position averaging, emergency erase, and cloning features. Up to 12 hours on 4 AA batteries..... **$219.99**

**GPS-60 Personal Navigator** – A 12 channel GPS receiver with WAAS. Accepts 1 Mb downloaded points of interest from MapSource® CD-ROM. Separate USB and serial port interfaces. Points of Interest data; Stores 500 waypoints and 50 routes; 10,000 points track log to retrace your path; TrakBack™ to a selected point function; Celestial tables for best fish and hunt times; Audible beeper alarm; Up to 28 hours on 2 AA alkaline batteries. Dim: 2.4"w x 7.1"h x 1.3"d..... **$179.99**

**GPS-MAP60 Map Navigator** – 12 channel GPS receiver with WAAS. Basemap with automatic turn-by turn routing capability shows cities, interstates, major roads and more. Download 24Mb of data from optional MapSource® CD for greater map detail. Includes MapSource® Trip and Waypoint manager for transferring waypoint, route and track data between your GPS and PC. Stores 500 waypoints and 50 routes; 10,000 point tracklog to retrace your path; TracBack™ to selected point function; Celestial tables for best fish and hunt times; Audible beeper; Up to 28 hours on 2 AA alkaline batteries; Separate USB and serial port interfaces. Dim: 2.4"w x 7.1"h x 1.3"d..... **$299.99**

**GPS-72** – A low-cost, but precise land and marine postioning using WAAS data. 500 name and graphic waypoints, 50 reversible routes; Backlit high-contrast, gray-scale display with "large number" option; Latitude/Longitude, UTM, Loran TDs, Maidenhead, MGRS and user grid formats; Arrival, off-course, clock and proximity alarms; 1 MB memory for MapSource data; Trip computer with odometer, stopped time, moving and overall average, total time, maximum speed..... **$149.99**

ST PILOT 2610 ST PILOT C330

**ST PILOT 2610** – Choose a destination on the touch screen or remote control and the route will be automatically calculated with turn-by-turn directions and voice prompts. Built-in basemaps containing state and country boundaries, lakes, rivers, streams, airports, cities, towns, coastlines, state and interstate highways, local thoroughfares and secondary roads within metro areas, federal interstate highway exit service information; Accepts downloadable map detail from MapSource City Navigator CD-ROM (included), which provides street-level detail, addresses, listings of restaurants, hotels, and more. Bright, 305 x 160 pixel 256-color LCD. Dim: 5.6"w x 3.2"h x 2.0"d ..... **$699.99**

**ST PILOT C330** – Preloaded with map data for US, Canada and Puerto Rico with all travel information detail you'd ever want. Navigation is easy - just enter an address or pick a destination and the automatic routing and voice prompts take you there. Touch screen operation, with vivid graphics. Vehicle suction cup multi-position mount with with integrated power cord, 12-volt adapter and PC/USB cable. Internal battery for trip planning. Dim: 3.2"h x 4.4"w x 2.8"d .....**$599.99**

**RINO-120 GPS Enabled Handheld for FRS & GMRS** Communicate up to 2 miles using the FRS radio function, or 5 miles, using GMRS. 14 channels, 38 squelch codes; VOX; Voice scrambler; "Silent" call mode. The 12-channel GPS function provides position accuracy of less than 10 ft. and position reporting using FRS Waypoint storage, TracBack, multiple position formats and built-in trip computer. Basemap of the Americas (major cities, highways, thoroughfares, rivers, lakes, coastlines, borders, and railways); 8MB memory for downloadable cartography from MapSource CD-ROMs; Uses 3 AA's ..... **$249.99**

**IQue-M5 Pocket PC integrated with GPS** – Loaded with Microsoft Pocket Outlook®, Word®, Excel® and Internet Explorer. Conduct business or travel going from point to point without stopping for directions. Calendar and contact information is integrated with GPS navigation to remind you of appointments, the location, and route with turn-by-turn direction and voice prompts. Integrated speaker; headphone jack; lithium rechargeable battery; 240 x 240 pixel TFT color display.... **$699.99**

**eTREX** *(left)* – 12-parallel-channel GPS receiver and internal patch antenna packaged in a waterproof case. Side operating buttons for larger display area. Simple menus and logical operation. Compass or map navigation; Zoom keys; 500 user waypoints; 1 route with 50 waypoints; Resettable trip computer; Auto track log, 10 saved tracks to retrace a path; Up to 22 hours use with 2 AA alkalines. Dim: 4.4"h x 2"w x 1.2"d; 5.3 oz..... **$99.99**

**eTREX SUMMIT Hiking Companion** *(right)* Similar to the eTrex but includes a barometric altimeter and electronic compass ..... **$179.99**

**GEKO-101** *(left)* Perfect for navigational novices. Features such as one-touch waypoint marking make it a snap to use. Easily maneuver from one waypoint to the next using its 250-waypoint storage capacity with symbols, and trace along a route with PanTrack™. Five buttons for one-hand use; High-contrast display – 64 x 100 pixels with LED backlighting; 12-hour operation on 2 AAA batteries; Automatic 3,000 trackpoint storage with TracBack®; 30 minutes water submersion at one meter. Dim: 1.9"w x 3.9"h x .96"d; 3.1 oz..... **$99.99**

**GEKO-201** *(right)* – Built-in WAAS capability; PC and external power connectivity. Has a configurable trip computer and 10,000 trackpoints, as well as PanTrack™ and TracBack®. 500/20 x 125 waypoint/route storage; Automatic 10 track storage; Five buttons (one-hand use); 64 x 100 pixel, high contrast display; Includes four interactive, outdoor games; 12-hour operation on on 2 AAA batteries. Dim: 3.9"h x 1.9"w x .96"d; 3.1 oz..... **$139.99**

**GPS-18 Package** – Turns a laptop into a street navigator using WAAS-enabled GPS sensor. bundled with nRoute™ and City Select® North America with detailed maps of the U.S. and select cities in Canada. Automatically guides with turn-by-turn directions and voice prompt.

**GPS-18PC DLX** – Serial connection sensor, 12V cigarette adapter, magnetic base, windshield mount and software. 2.4" dial. x 0.75"h; 6.5 oz.. **$129.99**

**GPS-18USB DLX** – USB connection sensor, magnetic base, windshield mount and software. Uses PC's power. 2.4" dial. x 0.75"h; 3.5 oz..... **$129.99**

**IQue-3600 PDA with Integrated GPS** – Look up appointments or contacts and get routing to their location with voice-guidance. SD expansion slot for storage; Flip-up, integrated GPS patch antenna; MP3 player; Memo playback; Voice recorder; Rechargeable internal battery; 32MB memory; Soft cover, metal stylus.
Dim: 2.8"w x 5"h x 0.8"d ..... **$499.99**

**cfQue-1620 CompactFlash® GPS Module** – Features new technology for high-performance GPS location, mapping, and street-level navigation to PDAs. Location awareness, address look-up, electronic mapping, auto route, and off-route recalculation; Basemap with highways, major streets, rivers, lakes, coastal waters; 64MB memory; Voice guidance (on capable units); Flip-up, adjustable antenna; Type I or II CompactFlash slot installation; PDA mount; MapSource City Select™ software. Dim: 1.7"w x 2.0"h x 0.5"d;1.5 oz..... **$249.99**

FORETREX 101 FORERUNNR 201

**FORETREX 101 Personal GPS Navigator** – Rugged, lightweight, waterproof for the sportsman. Provides accurate position data, extensive waypoint storage, reversible routes, track info, and TracBack technology. PC compatibility for waypoint, route and track management. Uses 2 AAAs, 15 hours of operation. Includes wristband. Dim: 3.3"w x 1.7"h x 0.6"d; 2.6 oz..... **$129.99**

**FORERUNNR 201 GPS/Personal Training Device** For athletes, runners and walkers. Calculate speed, distance and pace. Mark locations, look up and navigate to points, retrace or reverse normal route. Downloadable performance-tracking software to analyze activity over time. Transfer data to a PC, for review. Includes wristband, A/C charger with PC interface, manual and quick start guide. Dim: 3.3"w x 1.7"h x 0.6"d; 2.75 oz **$149.99**


Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

OREGON SCIENTIFIC

## SECURITY ITEM

**PE-319** **Pedometer with Personal Security** – Stay at ease while exercising away at home. This pedometer features a 120dB panic alarm for personal security and emergency. Displays elapsed workout time, distance walked and a 12/24 hour clock on its backlit 2-line LCD display ... C/O **$14.99**

## WEATHER STATIONS

**WMR-112A** CableFree™ Weather Station – Operates on 433 MHz at a 300' range from remote sensors. Measures outdoor temperature (-4°F to 140°F) and relative humidity (25%–95%); Measures indoor temperature (0°F to 122°F), relative humidity (25%–95%) and barometric pressure (17.27 to 31.02 in. Hg); Indoor touch-screen console, wall mount or desktop; AC adapter; Requires 12 "AAA" and 6 "AA" batteries (not included). Dim: 7.75"h x 3.5"w x 1.4"d ... Closeout **$139.99**

ICOM **FRS/GMRS Radios**

IC-F21-GM

**IC-4088A**
FRS RADIO
14 channels, 38 group codes and enhanced privacy.
C/O **$89.99**

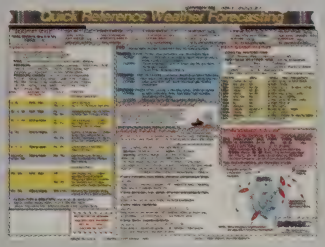
**IC-F21-GM**
FRS/GMRS
All FRS channels, 15 higher power GMRS channels, 7 shared with FRS.
**$149.99**

IC-4088A

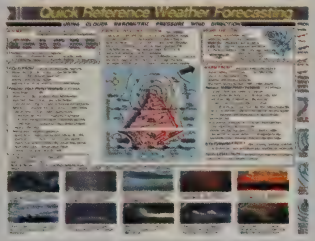
DAVIS

## Weather Forecasting Quick Reference Card

Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog and other hazardous conditions, and more. Weatherproof, strong plastic, full color. Punched for binder or bulkhead mounting.
Dim: 8.5 x 11 in ..... DAV 0131 **$9.99**




Side One



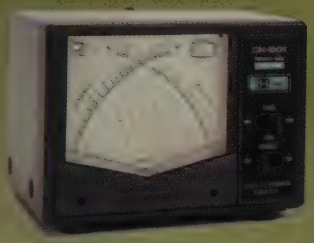

Side Two

DAIWA

# Accurate Measurements NO EXCUSES.

## Professionally Engineered Cross Needle Meters

**Forward power, reflected power and VSWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.**



### Professional Series

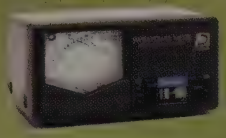
Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6"l x 4½"h x 4½"d (approx.)

NEW

**CN-801HP**
PEP Reading SWR/Power Meter
Frequency Range: 1.8-200MHz
Forward Power Ranges: 20/200/2000W

**CN-801V**
Frequency Range: 140-525MHz
Forward Power Ranges: 20/200W

**CN-801S**
Frequency Range: 900-2500MHz
Forward Power Ranges: 2/20W



### Economy Series

Accurate and dependable bench meters at an economy price. Lighted, 13.8VDC jack on rear panel. 6"l x 3"h x 4"d (approx.)

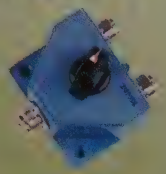
**CN-101**
Frequency Range: 1.8-150MHz
Forward Power Ranges: 15/150/1500W

**CN-103M**
Frequency Ranges: 140-525MHz
Forward Power Ranges: 20/200W

**CN-103N** (N-Type Conns)

### NEW! POWER SUPPLY

**SS-330W**
Convenient, lightweight 30 amp switching supply.
30 amps continuous
Dual meters
Adjustable voltage (5–15V)
Built-in fan
Weighs less than 5 lbs.
Carrying handle



### Coax Switches

Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty die cast cavity construction.

**CS-201**
2-Position 600MHz Switch
Max. Power: 2.5kW PEP/1kW CW
Conns: SO-239

**CS-201GH**
2-Position 2GHz Switch
Max. Power: 1.5kW CW
Conns: Gold plated N-Type

**SS-505**
Lightweight switching power supply
50 Amp Continuous, 55 AMP peak
Adjustable voltage, 5-15V
Can be used for DC motors requiring peak start-up voltage
Dual-use V/A meter
Built-in fan
Weight: 8lbs 6 oz

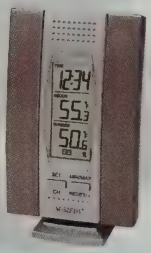
NEW

NCG COMPANY
(714) 630-4541 ¥ (800) 962-2611
(714) 630-7024 fax
www.natcommgroup.com

# WEATHER STATIONS

**WS-3610CH** Touch Screen Weather Station

Features a large, illuminated blue LCD Touch Screen that activates with the slightest touch to show all weather data, or the data can be imported to a PC using the included interface cable and software. Three remote sensors: Rainfall, Wind speed and direction, Outdoor temperature/humidity. Records MIN/MAX of readings with time and date stamp. Monitor: 12 or 24 hour Atomic Time and date, Indoor/outdoor temperature/humidity, Rainfall, Windspeed and direction with LCD compass, Wind chill, Dew point, Barometric pressure and tendency, Multiple weather alarms & Forecast icons. Uses (3) AA & (2) C Alkaline batteries.
Dim: 8.75"h x 6"w; desk or wall mount ... **$339.99**



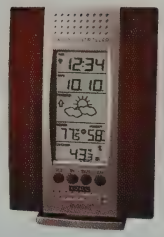
**WS-7013BZ** Wireless Digital Thermometer

Displays both indoor and outdoor temperatures (°F or °C) simultaneously. Outdoor temperature is transmitted up to 80 ft. to the main unit via the included remote sensor which also has its own display for local viewing at its remote location. Records minimum and maximum temperatures in memory; outdoor temperatures are time stamped. Includes a highly accurate Quartz Digital clock (not an atomic clock). Just install the included remote transmitter, and get both outdoor and indoor temperatures along with the time. Approx. 4.5" tall, desk or wall mount.. **$21.99**

**Note:** A remote using lithium batteries should operate down to about -40°F, but the remote display will probably fade out at about 0°F. This is normal, and it will reappear when the temperature warms up.

**WS-2310** Wireless or Wired Weather Center

Monitor: Indoor and outdoor temperature, Relative humidity, Barometric pressure, Wind speed and direction, Wind chill, Rainfall, Dew point, Tendency and warnings. Information is displayed on the compact backlit LCD, or can be imported to a PC using the included interface cable and CD-ROM. Alarms for certain weather conditions and records of all minimum and maximum values with time and date. WWVB "Atomic" clock. Dim: 6.7"w x 5.4"h, can be desk or wall mounted ..... CLOSEOUT **$249.99**



**WS-7014CH** Wireless Weather Forecasting Station

Displays indoor and outdoor temperature plus indoor relative humidity. Graphical weather forecast icons (cloudy, sunny, rain) based on changing air pressure. Outdoor temperature is transmitted up to 82 ft. to the station via an included remote sensor. Includes an atomic time clock that never needs resetting, updating date, date and time daily via the WWVB radio signal from Colorado that is effective in most of the lower 48 states. Uses (4) AA Alkaline batteries. Dim: 5.43"h x 3.54"w x 1.18"d, desk or wall mount ..... **$49.99**

**WS-7038UF** Digital Wireless Rain Gauge

You can set the high resolution 7 column bargraph to display 7 days, 7 weeks, or 7 months of rainfall history from data received up to 82 ft. away from the remotely located self-emptying rain gauge. Scroll through period by period on graph. Rain alarm function; 12/24-hour manual time set clock. Desk or wall mount. Power: (2) AA and (2) AAA Alkaline batteries. Dim: (receiver) 3.5"w x 4.4"h x .875"d; (remote) 5.25"dia. x 7.25"h ..... **$59.99**

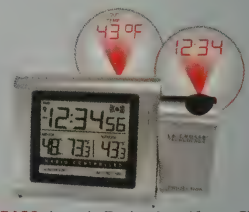
**WS-8025AL** Wireless Sun/Moon Weather Station — Displays indoor temperature and humidity, outdoor temperature and humidity, and barometric pressure. Shows sunrise and sunset times and moonrise and moonset times for any of 250 North American cities, plus phases of the moon. Accurate 12/24 hour atomic clock with calendar display and alarm with snooze function updates daily from WWVB in Colorado. Outdoor temperature and humidity are transmitted to the station up to 82 ft. away via an included remote sensor. The station keeps a record of the minimum and maximum indoor and outdoor temperatures and humidity it has recorded. Indoor minimum and maximum readings are available at the push of a button. Outdoor minimum and maximum readings are displayed along with the current readings. Weather forecast display by weather icons (sunny, cloudy, rainy). Indoor comfort level indicator with happy and sad face icons. A 30-hour air-pressure history bar graph, and an display of air-pressure changes over the past 2 hours. A storm warning alarm is issued if air pressure drops rapidly over a 6-hour period. Powered by (4) AA Alkaline batteries. Approx. 10 in tall, desk or wall mount ..... **$159.99**

**WS-8117U-OAK** Digital Atomic Wall Clock

Extra-large digital display shows 12/24-hour Time, Day, Date, Weekday, °F/°C Indoor temperature and Outdoor temperature transmitted to the clock by an included wireless remote thermo sensor located up to 82 ft. away. Clock sets automatically to WWVB radio signal for the most accurate time. Daily alarm setting with snooze function; Calendar display with day abbreviations in choice of English, French, Spanish, or German; 13 time zone settings; Daylight saving time ON/OFF; 8 moon phase icons. Mounts on wall, or extend the integral foldout stand to use it as a freestanding unit on a table or shelf. Both the clock and remote sensor are power by two AA Alkaline batteries (not included). Dim: (clock) 12.2"w x 8"h x 1.18"d, (remote sensor) 1.57"w x 5.04"h x 0.9"d. Oak finish ..... **$39.99**

**IR-101** *Infra-Scan* Infrared Thermometer

Allows measuring temperature in just a fraction of a second without touching the object being measured. Useful for contact-free measurement of stationary and moving objects, finding cold spots in a home, checking food, heating and air conditioning, hot components (machinery, engines, etc.) over a wide temperature range from -4°F to +572°F. Single key operation, Backlit LCD. Uses (4) LR-44 button cells (included). Dim: 2.2"w x 0.9"d x 4"h. **$49.99**



**WT-5120** Atomic Projection Alarm Clock with Indoor Temperature, Humidity and Wireless Outdoor Temperature

Displays very accurate time, indoor temperature, indoor humidity, plus outdoor temperature on its large LCD display In addition, it projects an alternating pattern of time and outdoor temperature on the ceiling or wall. AC Power Adapter Included. Dim: 3.6"h x 5.52"w x 1.9"d ..... **$39.99**

- Atomic Time with Manual Setting
- 12 Hour Time Display (hours, minutes, seconds)
- Automatically Updates for Daylight Saving Time
- Time Alarm with Snooze
- Indoor Humidity (%RH)
- Wireless Outdoor Temperature (°F)
- Indoor Temperature (°F)

**See the Product Locator for Weather Radios**

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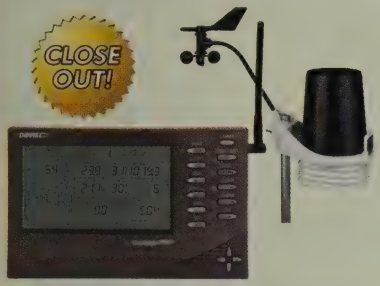
# DAVIS

## WEATHER STATIONS

**Professional quality for home, business, or scientific use. Add WeatherLink for detailed, long-term analysis using a PC. Standard weather stations assemble quickly with plug-in cable connections. Cables are connected to the console through a junction box with 8 ft. cable. Console includes AC adapter with battery backup (not included).**

**All stations include, time in 12/24-hour format, date, U.S. and metric measure, highs and lows, calibration of some functions for increased accuracy under difficult conditions, sequential scan and display of readings, alarms for selected functions, console with LCD and reversible base (desk, shelf, or wall), and anemometer with 40 ft. cable.**



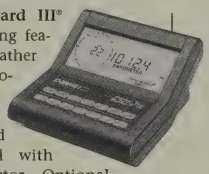

**6150 Wireless Vantage Pro** – Offers forecasting, on-screen graphing, and more. Monitors barometric pressure, temperature, humidity, rainfall, wind speed and direction. Quick view icons show the forecast at a glance – sunny, partly sunny, cloudy, rain or snow, while a moving ticker-tape display gives more details. An innovative integrated and solar powered sensor suite combines rain collector, temperature, humidity sensors, and anemometer into one package – making setup easier than ever and improving performance and reliability. Typical wireless range is up to 150-200ft. For improved accuracy, the temperature and humidity sensors are housed inside a shield which protects solar radiation and other sources of radiated and reflected heat..... Closeout **$399.99**

**6152 Wireless Vantage Pro2** – Looks the same as the original Vantage Pro above. But it's the first weather station in its price range to use frequency hopping Spread Spectrum radio to transmit and receive data up to 1000 ft. line of sight. It still offers the same great features of Vantage Pro such as forecasting, on-screen graphing, and much more. Quick view icons show the forecast at a glance–sunny, partly sunny, cloudy, rain or snow–while a moving ticker-tape display gives more details. The integrated sensor suite combines a rain collector, temperature and humidity sensors, and anemometer into one package–making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat.... **$539.99**

We accept I.M.P.A.C.® Government Credit Cards

**7440 Weather Monitor II®** Shows all weather monitoring functions and clock on an back lit, 1.875" x 4.375" LCD display. Temperature readings of –50 to 140°F (outside), 32° to 140°F (inside); Wind calculations, including direction in 1° or 10° increments, wind speed up to 175mph, and high wind speed and wind chill to –134°F; Barometer measuring barometric pressure with memory recall and trend arrow; Indoor high and low humidity from 10%-90% (outside optional); Alarms for temperature, wind speed, wind chill, humidity, time and barometric trends. Dim: 5.25" x 5.875" x 3"..... **$269.99**

**7859 External Temperature/Humidity Sensor** For 7440. Measure outside humidity, dew point and temperature. Includes 40 ft. cable.. **$119.99**



**7425 Weather Wizard III®** Offers most monitoring features of the Davis Weather Monitor II, except barometric pressure and inside humidity. Measure daily and accumulated rainfall with optional rain collector. Optional Weather-Link software will process and store data through an IBM®-compatible or Mac®. Metric or U.S. Dim: 5.25" x 5.875" x 3"..... **$179.99**

**7852 Rain Collector II** – For 7440, 7425 & 7415. Read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable..... **$69.99**

**7400 Perception II® –** Ideal for keeping track of climate conditions inside the home. No installation required. Looks similar to 7425; Indoor temperature -32°F to 140°F; Barometric pressure with memory recall; Humidity; Alarms for temperature, humidity, time, and barometric change. **$129.99**

**0276 Windscribe Ultrasonic Wind Meter** – Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" x 3" x 0.75"; 3.5 oz..... **$99.99**

**0281 Wind Wizard™ Wind Speed Indicator** Accurately measures speed from 0-60 mph in miles/hour, meters/sec., and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. No batteries needed. Dim: 3.625" x 2.875" x 1" folded; 2.5 oz.. **$49.99**

# MIDLAND

## WEATHER RADIOS

**WR-300 AM/FM Alarm Clock Radio with 7-Channel Weather/All Hazards** – For security, be alert to conditions that affect you. This unit offers S.A.M.E. technology (Specific Area Message Encoding), which preprograms the device to receive only those warnings that apply to your local area. You can choose state, county, and/or nearby counties. Offers 30 programmable county codes, AM/FM tuning, date, time, alarm functions, and automatically switches from AM/FM to pertinent all-hazard alerts. Drift-free PLL technology and an easy-to-read blue, backlit LCD. You get a convenient, 10-alert memory, and you can add, edit, and remove unwanted alerts at any time. Operates from the supplied AC power adapter or four AA Batteries (not included).....**$59.99**

**74-250C**
**All-hazard Alert Handheld Weather Radio with S.A.M.E. Technology**

Get 24-hour, up-to-the-minute weather and hazardous-conditions information Receives all seven NOAA weather channels and has SAME (Specific Area Message Encoding) technology. Digital panel displays up to 56 messages. Includes a 12/24 hour dual alarm clock with snooze and nine memory settings. Built-in fahrenheit/celsius thermometer with freeze warning alert. Waterproof for outside use. Requires two "AA" cells (not supplied) and supports in-unit battery charging of two NiCD or NiMH "AA" cells (not supplied). Battery low indicator. Only 4"h x 2.75"w x 1"d..... **$49.99**

## DAVIS SOFTWARE

**7862** WEATHERLINK® – Links a PC and PerceptionII, Weather WizardIII, or Weather Monitor II. Create graphs, calculate average conditions, generate summaries, analyze trends, etc **$149.99**

**7866** – Same as above, for Mac Closeout **$49.99**

**AMATEUR ELECTRONIC SUPPLY®** 5710 W. Good Hope Road • Milwaukee, WI 53223
*Local:* (414) 358-0333 • *Toll Free:* 1-800-558-0411 • *24-hour FAX:* (414) 358-3337 • *On-line:* www.aesham.com • *E-Mail:* info@aesham.com

Salesperson's Name _____
Account No. _____ Date _____
Name _____ Call _____
Address _____
City/State _____ Zip _____
E-Mail Address: _____ Fax: _____
Phone No. (Home) ( ) _____ Hours: _____
Phone No. (Work) ( ) _____ Hours: _____

SHIP TO *(If other than at left):*

IF YOU HAVE MOVED since your last order, please show your old address:

| QTY. | MANUFACTURER | PART OR MODEL # • DESCRIPTION | PRICE EACH | TOTAL |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | **TOTAL AMOUNT OF ORDER** | $ |

**LINE 1** — TRADE-IN Allowance (if any) *Enclose mail quotation or reference telephone quote & list Trade-in items on line provided below.*

IMPORTANT! Persons having a Trade-in must check one of the following: (Also, see more important information on previous page and on Policies page.)

- ❐ Hold this order until you receive and approve my trade-in.
- ❐ Payment in-full enclosed. Refund allowance when my trade-in is received and approved.
- ❐ Charge the FULL AMOUNT of my order to my Charge Card and Credit my trade-in allowance when my trade-in is received and approved.

-

**LINE 2** — Shipping Charges We ship via **best ground method** at *flat-rate* shown on next page, except to APO/FPO made via Priority Mail.
*For Faster Service* select one of the following: (These methods are not flat-rated so allow for increased shipping charges - no flat-rate credit.)
❐ UPS Next Day Air (Red) ❐ 2nd Day Air (Blue) ❐ 3-Day Select (Orange) ❐ Fed Ex ❐ Fed Ex Home ❐ Express Mail ❐ Priority Mail

+ *Shipping Charges are taxable in WI, FL, NV & OH*

**LINE 3** — Sales Tax: ❐ WI- 5.6%, ❐ FL- 6.5%, ❐ NV- 7.75%, ❐ OH- 6.25% *For Ohio & Nevada figure tax before subtracting trade-in allowance* +

**LINE 4** — Credits: AES Refund Checks, Gift Certificates or Manufacturer's Coupons (if any) -

**CREDIT CARD INFORMATION**

We accept I.M.P.A.C.® Government Credit Cards

Account Number

Cardholder's Name CARD EXPIRES

Cardholder's Signature Date

**LINE 5** — Balance $

**LINE 6** — Due AES from previous order (if any) +

**TOTAL AMOUNT DUE**

Choose payment method from below: (Fill in information at right, if applicable)
❐ Bank transfer ❐ Certified check ❐ Personal check ❐ Money order
DO NOT MAIL CURRENCY. Send bank check or money order. Personal check may delay shipping until it clears our bank. Attach remittance to top of order blank.
❐ Credit card (VISA, MasterCard, Discover, American Express, IMPAC)
❐ COD $8.50 fee per package. *Money Order or Certified Check Only.*
*MINIMUM $20.00 COD ORDER – NO AIR OR PARCEL POST COD's*

$

**AMOUNT ENCLOSED** -

**BALANCE DUE (IF ANY)** $

## BANK TRANSFER INFORMATION

M&I Marshall & Ilsley Bank, 770 North Water Street, Milwaukee, WI 53202 ABA #075000051. Credit to account #00244-15017 in the name of Amateur Electronic Supply. Swiftcode: MARLUS44. Make sure to include the name under which the order was submitted.



Cut along dotted line or make photocopy

## COD ORDERS

Minimum COD order is $20.00 in merchandise, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a $8.50 COD fee per package applies. Payment by money order or certified check only.

## DAMAGED ITEMS

If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY**. The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

## DEFECTIVE ITEMS

Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at the manufacturer's discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. Canadians please see *"Canadians Note:"* under TRADE-INS.

## INTERNET ORDERS

The customer may order products directly on our web site via our internet order form. If the customer does not have access to the web, but has an e-mail account, the customer may e-mail his/her order making sure the following information is included: full name, call sign (not required to order), phone number, billing address, shipping address, item(s) to be purchased (model number and manufacturer) and method of payment. If paying by credit card, we need the card number and expiration date.

## PAYMENT

Accepted forms of payment are electronic bank transfer (add $30.00 Wire Transfer Fee), certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

## PRICING

We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc.; prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. **AES** is not responsible for typographical errors or omissions.

## REFUNDS

Amounts under $5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

## RETURNS

In order to maintain the lowest possible prices, we do not offer a *free trial* or *evaluation period* on new equipment. If permitted, an **authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee.** The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see *"Canadians Note:"* under TRADE-INS.

## PACKING FOR SERVICE AND/OR RETURN

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3 in. of foam or crumpled paper should be used instead of polystyrene edge protectors. **Send you package insured.**

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

## SHIPPING

Shipping charges, which include adequate insurance, are based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax (see chart on this page for rates). Cancellations on partially shipped orders will not affect the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES via Ground Service, only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart on this page for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods.

Shipments to APO/FPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV.

To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches, due to various reasons. In this case, AES will ship the order from a location that has the needed item.

## TRADE-INS

Amateur Electronic Supply accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments not accepted.

AES assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

**Canadians Note:** Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

## BIDS & PURCHASE ORDERS

AES accepts written and signed Purchase Orders from well rated D&B companies, military, schools, colleges, universities and federal, state, county and city Government agencies.

We welcome the chance to bid on your requirements and search the Internet daily for requests from all Government agencies. We are registered with FACNET and accept Government I.M.P.A.C.® charge cards. Net terms available to Government agencies, schools, and companies highly rated in Dunn & Bradstreet.

For more information please contact AES – Toll Free: 1-800-558-0411, Local: 414-358-0333, Fax: 414-358-3337 or info@aesham.com.

## SPECIAL ORDERS

Occasionally manufacturers offer items that AES doesn't stock. However, we can order these items for you. Please contact sales: info@aesham.com for more information on special orders. Please note that once a special order is placed it cannot be canceled or returned.

## INTERNATIONAL ORDERS

AES can ship orders internationally. However our domestic policies do not apply to these orders. Payments will need to be made via bank wire transfer. We charge the actual freight amount, and the buyer will be responsible for all local fees and duties. To get a quote for an international order please contact info@aesham.com for complete details.

### FLAT RATE SHIPPING via Ground in the contiguous 48 States

| AMOUNT OF ORDER | SHIPPING CHARGES |
|---|---|
| Up to $100.00 | $4.99 |
| $100.01 to $500.00 | $9.99 |
| $500.01 to $1,499.99 | $14.99 |
| $1500.00 & UP | PREPAID |

*Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska*

**Flat Rate Advantage – No Penalty for Number of Cartons or Weight!**

**UPS can not deliver to PO Boxes**

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GARY L. KA9YTB

PAUL W9KHO

JIM WJ9P

JEFF N9EDQ
Assistant Manager

RAY W9KHH

TOM W9TJP
National Sales Manager

## CLEVELAND, OH 440-585-7388 • 1-800-321-3594

BEN AA8AH
Store Manager

ALEX K8EUR
Assistant Manager

KIPP N2JAF

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JULIO KP4UZ
Hablo español
Ich spreche Deutsch

LUKE KK7XX
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SQUEAK AD7K

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Store Manager

EDDIE KD4RAZ
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ERNIE K1HO

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GRANT K4IQW
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# CALL 414-358-4087 for SERVICE

**Unlike some dealers, when you purchase a New radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.**

MILES, K9HMQ (Service Mgr.)
(Milwaukee Store)

STEVE, N9SO
(Milwaukee Store)

ED, KB8YSX
(Ohio Store)

**Warranty Service**

Please refer to manufacturers warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty, will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

**Out-Of-Warranty, Late Model Equipment**

Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087

**Shipping Equipment for Service**

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number, and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service", and always adequately insure your items.

**Labor Rates**

- $60 per hour for Out-Of-Warranty Service
- $80 minimum on HF/VHF Base Stations
- $60 minimum on VHF Mobiles and Handheld Transceivers
- Rates do not include Parts, Return Shipping or Handling Charge

## Shipping Information

**FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States**

| AMOUNT OF ORDER | SHIPPING CHARGES |
|---|---|
| Up to $100.00 | $4.99 |
| $100.01 to $500.00 | $9.99 |
| $500.01 to $1,499.99 | $14.99 |
| $1500.00 & UP | PREPAID |

*Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska*

Flat Rate Advantage – No Penalty for Number of Cartons or Weight!

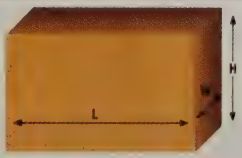
**EXCEPTIONS TO RATES ABOVE**

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, FL & NV.

Please see Policies Page for complete information.

**TRACKING NUMBERS** for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for our Tracking Number Service.




Domestic Air: $\frac{L \times W \times H}{194}$ = Dimensional Weight

International Air: $\frac{L \times W \times H}{166}$ = Dimensional Weight

### Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your IC-756PRO, TS-2000 or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

### Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

### Dim Weight

When calculating the cost of Air Shipments, whether Fed-Ex, UPS or other carrier, they use Dimensional (Dim) weight to insure adequate revenues per cubic foot of cargo plane space. The illustration above shows how to calculate the Dim weight for both Domestic and International shipments. For example: a 12"x13"x16" box that weighs 6 pounds will be sent at the 12 pound rate via Domestic Air.

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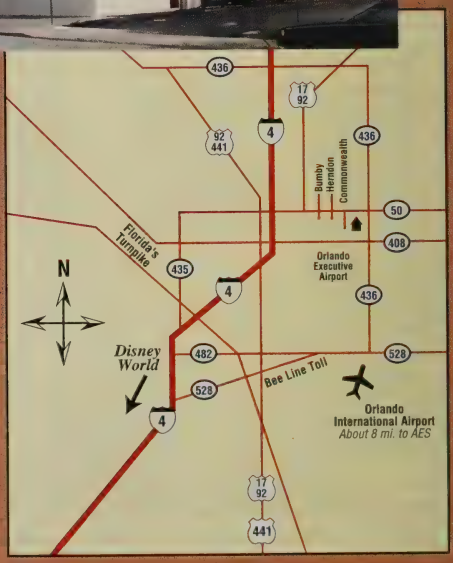


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# IC-7000

**DIGITAL IF FILTERS**
No optional filters to buy! All the filters you want are at your fingertips. Simply dial-in the width you want and select sharp or soft shapes for SSB and CW modes.

**HIGH STABILITY CRYSTAL UNIT**
The 7000 incorporates a high-stability master oscillator, providing 0.5ppm (-0°C to +50°C). A must for data operation!

**AGC LOOP MANAGEMENT**
The digital IF filter & manual notch filter are included in the AGC loop, so you won't have AGC pumping.

**35W OUTPUT IN 70CM BAND**
High power MOS-FET amps supply 35W output power in 70CM band as well as 100W in HF/50MHz bands and 50W in 2M.

**DIGITAL VOICE RECORDER (DVR)**
The DVR makes portable contesting or mini-DXpeditions a breeze! Record your callsign, CQ, or other information in 4 transmit playback memories with alphanumeric labels. Record incoming signals for up to 25 minutes, too!

**DDS (DIRECT DIGITAL SYNTHESIZER) CIRCUIT**
Icom's new DDS circuit improves C/N ratio, providing clear, clean transmit signal in all bands.

**USER-FRIENDLY KEY ALLOCATION**
Eight of the most used radio functions – such as NB, NR, MNF, and ANF – are controlled by dedicated function keys. Those keys are grouped around the display for easy visibility.

**TWO POINT MANUAL NOTCH FILTER**
Pull out the weak signals! Apply 70dB of rejection to two signals at once!

# Conquer the world, one mini-DX at a time!

Makes ham radio so much fun, you'll never want to leave the car again. Or your home. The 7000 is ideal as a mobile or base station. So much power and so many features, yet such a small footprint. Must be an Icom. Visit AES today and start conquering the world.

HF/6M @ 100W (40W AM), 2M @ 50W (20W AM), 70CM @ 35W (14W AM) • DSP² - Dual DSP Processors • Digital IF Filters • Twin Pass Band Tuning • Multiple AGC Loops • MNF² - Dual Manual Notch Filters

**For the love of ham radio.**

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# IC-7800
## Upgraded

**3** *ROOFING FILTERS*
*3kHz • 6kHz • 15kHz*

# Now with three roofing filters!

You asked for it - we delivered. Icom has added a third roofing filter to our ultimate HF Rig - the 7800! We have redesigned the '7800's main and sub receiver circuitry to add ultra narrow 3kHz roofing filters - in addition to the existing 6kHz and 15kHz filters. Already own a 7800? We can upgrade your existing 7800 for you. Ask AES for details.

**QUAD DSP TECHNOLOGY** The '7800 incorporates four 32-Bit DSP processors: One unit for each receiver, one for transmit, & one for band scope.

**2-MODE REAL-TIME BAND SCOPE** Whether you want to watch band activity around your operating frequency, or search and pounce by using the fixed band scope, the '7800 sees the signals that others can't.

**CW AUTO TUNE** Quickly zero beat a CW signal, then tune above or below, to break the pile-up! Each receiver has its own Auto Tune.

**DIGITAL TWIN PASS BAND TUNING** Reduce or completely eliminate interfering signals by narrowing and shifting the IF passband.

**RTTY & PSK31 ENCODE/DECODE** More than just a tuning indicator, fully functional Encode/Decode software for hours of operating fun.

**200 WATTS @ 100% DUTY CYCLE** The '7800 produces the biggest signal! Rated for 100% duty cycle, run it as hard as you can!

**FRONT PANEL DYNAMIC ANTENNA SELECTOR** No need to reach behind your radio to select an antenna - do it all from the front panel!

**ATTENTION 6m ENTHUSIASTS** The 7800 has a separate front-end specifically designed for 6M operation. This greatly reduces intermodulation characteristics, enabling weak signal work without distortion or interference from strong signals in the band.

**CONTESTER DESIGNED ERGONOMICS** All functions and controls are right where they should be, allowing you to keep one hand on the controls and one on the keyboard.

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ICOM®

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